

Ser Asp Met Met Gly Leu Leu Lys Thr Phe Ser Cys His Lys Glu  
 145 150 155 160  
 Phe Gln Thr Val Pro Phe Tyr Ile Phe Ser Glu Ser Tyr Gly Gly Lys  
 165 170 175  
 Met Ala Ala Gly Ile Gly Leu Glu Leu Tyr Lys Ala Ile Gln Arg Gly  
 180 185 190  
 Thr Ile Lys Cys Asn Phe Ala Gly Val Ala Leu Gly Asp Ser Trp Ile  
 195 200 205  
 Ser Pro Val Asp Ser Val Leu Ser Trp Gly Pro Tyr Leu Tyr Ser Met  
 210 215 220  
 Ser Leu Leu Glu Asp Gly Leu Ala Glu Val Ser Lys Val Ala Glu  
 225 230 235 240  
 Gln Val Leu Asn Ala Val Asn Lys Gly Leu Tyr Arg Glu Ala Thr Glu  
 245 250 255  
 Leu Trp Gly Lys Ala Glu Met Ile Ile Glu Gln Val Lys Arg Gly Asn  
 260 265 270  
 Thr Gln Arg Arg Ala Cys Leu Ala Phe Ser Gly Gly Tyr Arg Ala His  
 275 280 285  
 Gly Trp Cys Cys Gln Thr Trp Ser Leu His  
 290 295 298

<210> 911  
 <211> 213  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(213)  
 <223> X = any amino acid or stop code

<400> 911  
 Pro Gly Trp Ser Arg Ser Pro Asp Leu Val Ile Arg Leu Pro Arg Pro  
 1 5 10 15  
 Pro Lys Val Leu Gly Leu Gln Tyr Tyr His Phe Phe Phe Leu Arg  
 20 25 30  
 Trp Ser Leu Asp Ser Val Ala Gln Ala Glu Val Gln Trp His Asp Leu  
 35 40 45  
 Arg Ser Leu Gln Ala Pro Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu  
 50 55 60  
 Ser Leu Pro Gly Ser Trp Asp Tyr Arg Cys Pro Pro Pro Arg Pro Ala  
 65 70 75 80  
 Asn Phe Leu Tyr Phe Xaa Xaa Arg Arg Gly Phe Thr Val Leu Ala Arg  
 85 90 95  
 Met Val Ser Ile Ser Xaa Pro Arg Asp Pro Pro Ala Ser Ala Ser Gln  
 100 105 110  
 Ser Ala Gly Ile Thr Val Leu Ser Leu Phe Phe Phe Phe Glu Met Glu  
 115 120 125  
 Ser Cys Ser Val Ala Gln Ala Gly Val Gln Trp Arg Tyr Leu Gly Ser  
 130 135 140  
 Leu Gln Ala Leu Pro Pro Gly Phe Thr Pro Phe Ser Cys Leu Ser Leu  
 145 150 155 160  
 Pro Ser Ser Trp Asp Tyr Arg Arg Pro Pro Pro Arg Pro Ala Asn Phe  
 165 170 175  
 Phe Val Phe Leu Val Glu Thr Gly Val Ser Pro Cys Xaa Pro Gly Trp  
 180 185 190  
 Ser Arg Ser Pro Asp Leu Val Ile Arg Leu Pro Gln Pro Pro Lys Val  
 195 200 205  
 Leu Gly Leu Gln Val

210 213

<210> 912  
<211> 583  
<212>Amino acid  
<213> Homo sapiens

<400> 912  
Pro Ser Met Lys Thr Gly Glu Leu Glu Lys Glu Thr Ala Pro Leu Arg  
1 5 10 15  
Lys Asp Ala Asp Ser Ser Ile Ser Val Leu Glu Ile His Ser Gln Lys  
20 25 30  
Ala Gln Ile Glu Glu Pro Asp Pro Pro Glu Met Glu Thr Ser Leu Asp  
35 40 45  
Ser Ser Glu Met Ala Lys Asp Leu Ser Ser Lys Thr Ala Leu Ser Ser  
50 55 60  
Thr Glu Ser Cys Thr Met Lys Gly Glu Lys Ser Pro Lys Thr Lys  
65 70 75 80  
Lys Asp Lys Arg Pro Pro Ile Leu Glu Cys Leu Glu Lys Leu Glu Lys  
85 90 95  
Ser Lys Lys Thr Phe Leu Asp Lys Asp Ala Gln Arg Leu Ser Pro Ile  
100 105 110  
Pro Glu Glu Val Pro Lys Ser Thr Leu Glu Ser Glu Lys Pro Gly Ser  
115 120 125  
Pro Glu Ala Ala Glu Thr Ser Pro Pro Ser Asn Ile Ile Asp His Cys  
130 135 140  
Glu Lys Leu Ala Ser Glu Lys Glu Val Val Glu Cys Gln Ser Thr Ser  
145 150 155 160  
Thr Val Gly Gly Gln Ser Val Lys Lys Val Asp Leu Glu Thr Leu Lys  
165 170 175  
Glu Asp Ser Glu Phe Thr Lys Val Glu Met Asp Asn Leu Asp Asn Ala  
180 185 190  
Gln Thr Ser Gly Ile Glu Glu Pro Ser Glu Thr Lys Gly Ser Met Gln  
195 200 205  
Lys Ser Lys Phe Lys Tyr Lys Leu Val Pro Glu Glu Glu Thr Thr Ala  
210 215 220  
Ser Glu Asn Thr Glu Ile Thr Ser Glu Arg Gln Lys Glu Gly Ile Lys  
225 230 235 240  
Leu Thr Ile Arg Ile Ser Ser Arg Lys Lys Pro Asp Ser Pro Pro  
245 250 255  
Lys Val Leu Glu Pro Glu Asn Lys Gln Glu Lys Thr Glu Glu Glu  
260 265 270  
Glu Lys Thr Asn Val Gly Arg Thr Leu Arg Arg Ser Pro Arg Ile Ser  
275 280 285  
Arg Pro Thr Ala Lys Val Ala Glu Ile Arg Asp Gln Lys Ala Asp Lys  
290 295 300  
Lys Arg Gly Glu Gly Glu Asp Glu Val Glu Glu Ser Thr Ala Leu  
305 310 315 320  
Gln Lys Thr Asp Lys Lys Glu Ile Leu Lys Lys Ser Glu Lys Asp Thr  
325 330 335  
Asn Ser Lys Val Ser Lys Val Lys Pro Lys Gly Lys Val Arg Trp Thr  
340 345 350  
Gly Ser Arg Thr Arg Gly Arg Trp Lys Tyr Ser Ser Asn Asp Glu Ser  
355 360 365  
Glu Gly Ser Gly Ser Glu Lys Ser Ser Ala Ala Ser Glu Glu Glu Glu  
370 375 380  
Glu Lys Glu Ser Glu Glu Ala Ile Leu Ala Asp Asp Asp Glu Pro Cys  
385 390 395 400  
Lys Lys Cys Gly Leu Pro Asn His Pro Glu Leu Ile Leu Cys Asp

Ser	Cys	Asp	Ser	Gly	Tyr	His	Thr	Ala	Leu	Pro	Phe	Ala	Pro	Pro	Leu
															415
405															
Met	Ile	His	Pro	Gln	Met	Gly	Gly	Trp	Phe	Cys	Pro	Thr	Phe	Cys	Pro
															430
420															
435															445
Thr	Leu	Asn	Leu	Leu	Leu	Leu	Glu	Lys	Leu	Glu	Asp	Gln	Phe	Gln	Asp
450															
Leu	Asp	Val	Ala	Leu	Lys	Glu	Arg	Ala	Leu	Pro	Glu	Arg	Arg	Lys	
															465
465															
Glu	Arg	Leu	Val	Tyr	Val	Gly	Ile	Ser	Ile	Glu	Asn	Ile	Ile	Pro	
															480
485															
Gln	Glu	Pro	Asp	Phe	Ser	Glu	Asp	Gln	Glu	Glu	Lys	Lys	Lys	Lys	
															500
500															
Lys	Lys	Ser	Lys	Ala	Asn	Leu	Leu	Glu	Arg	Arg	Ser	Thr	Arg	Thr	Arg
515															510
Lys	Cys	Ile	Ser	Tyr	Arg	Phe	Asp	Glu	Phe	Asp	Glu	Ala	Ile	Asp	Glu
530															540
Ala	Ile	Glu	Asp	Asp	Ile	Lys	Glu	Ala	Asp	Gly	Gly	Val	Gly	Arg	
															545
545															
Gly	Lys	Asp	Ile	Ser	Thr	Ile	Thr	Gly	His	Arg	Gly	Lys	Asp	Ile	Ser
565															575
Thr	Ile	Leu	Asp	Glu	Glu	Arg									
580															583

<210> 913  
<211> 178  
<212>Amino acid  
<213> Homo sapiens

Lys	Arg	Arg	Gly	Ser	Phe	Lys	Met	Ala	Glu	Leu	Asp	Gln	Leu	Pro	Asp
1							5		10						15
Glu	Ser	Ser	Ser	Ala	Lys	Ala	Leu	Val	Ser	Leu	Lys	Glu	Gly	Ser	Leu
20									25						30
Ser	Asn	Thr	Trp	Asn	Glu	Lys	Tyr	Ser	Ser	Leu	Gln	Lys	Thr	Pro	Val
35									40						45
Trp	Lys	Gly	Arg	Asn	Thr	Ser	Ser	Ala	Val	Glu	Met	Pro	Phe	Arg	Asn
50									55						60
Ser	Lys	Arg	Ser	Arg	Leu	Phe	Ser	Asp	Glu	Asp	Asp	Arg	Gln	Ile	Asn
65									70						80
Thr	Arg	Ser	Pro	Lys	Arg	Asn	Gln	Arg	Val	Ala	Met	Val	Pro	Gln	Lys
85									90						95
Phe	Thr	Ala	Thr	Met	Ser	Thr	Pro	Asp	Lys	Ala	Ser	Gln	Lys	Ile	
100									105						110
Gly	Phe	Arg	Leu	Arg	Asn	Leu	Leu	Lys	Leu	Pro	Lys	Ala	His	Lys	Trp
115									120						125
Cys	Ile	Tyr	Glu	Trp	Phe	Tyr	Ser	Asn	Ile	Asp	Lys	Pro	Leu	Phe	Glu
130									135						140
Gly	Asp	Asn	Asp	Phe	Cys	Val	Cys	Leu	Lys	Glu	Ser	Phe	Pro	Asn	Leu
145									150						160
Lys	Thr	Arg	Lys	Leu	Thr	Arg	Val	Glu	Trp	Gly	Lys	Ile	Arg	Arg	Leu
165									170						175
Met	Gly														
178															

<210> 914  
<211> 158  
<212>Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(158)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 914

Met	Pro	Glu	Tyr	Leu	Arg	Lys	Arg	Phe	Gly	Gly	Ile	Arg	Ile	Pro	Ile
1				5					10				15		
Ile	Leu	Ala	Val	Ile	Tyr	Leu	Phe	Ile	Tyr	Ile	Phe	Thr	Lys	Ile	Ser
					'20				25				30		
Val	Asp	Met	Tyr	Ala	Gly	Ala	Ile	Phe	Ile	Gln	Gln	Ser	Leu	His	Leu
	35						40				45				
Asp	Leu	Tyr	Leu	Ala	Ile	Val	Gly	Leu	Leu	Ala	Ile	Thr	Ala	Val	Tyr
	50						55				60				
Thr	Val	Ala	Gly	Gly	Leu	Ala	Ala	Val	Ile	Tyr	Thr	Asp	Ala	Leu	Gln
	65						70				75			80	
Thr	Leu	Ile	Met	Leu	Ile	Gly	Ala	Leu	Thr	Leu	Met	Gly	Tyr	Ser	Phe
	85									90			95		
Ala	Ala	Val	Gly	Gly	Met	Glu	Gly	Leu	Lys	Glu	Lys	Tyr	Phe	Leu	Ala
	100							105					110		
Leu	Ala	Ser	Asn	Arg	Ser	Glu	Asn	Ser	Ser	Cys	Gly	Leu	Pro	Arg	Glu
	115							120					125		
Asp	Ala	Phe	His	Ile	Phe	Arg	Asp	Pro	Leu	Thr	Ser	Asp	Leu	Pro	Trp
	130						135					140			
Pro	Gly	Val	Leu	Phe	Gly	Met	Ser	Ile	Pro	Ser	Leu	Xaa	*		
145							150				155		157		

&lt;210&gt; 915

&lt;211&gt; 108

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(108)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 915

Kaa	Ser	Ala	Ser	Ala	Thr	Ser	Leu	Thr	Leu	Ser	His	Cys	Val	Asp	Val
1					5				10			15			
Val	Lys	Gly	Leu	Ile	Asp	Phe	Lys	Lys	Arg	Arg	Gly	His	Ser	Ile	Gly
							20		25				30		
Gly	Ala	Ala	Pro	Glu	Gln	Arg	Tyr	Gln	Ile	Ile	Pro	Val	Met	Cys	Cys
								35		40			45		
Leu	Leu	Ala	Thr	Gly	Gly	Ala	Asp	Arg	Leu	Ile	His	Leu	Trp	Asn	Val
								50		55		60			
Val	Gly	Ser	Arg	Leu	Glu	Ala	Asn	Gln	Thr	Leu	Glu	Gly	Ala	Gly	Gly
	65							70			75		80		
Ser	Ile	Thr	Ser	Val	Asp	Phe	Asp	Pro	Ser	Gly	Tyr	Gln	Val	Leu	Ala
							85			90			95		
Ala	Thr	Tyr	Asn	Gln	Val	Ala	Gln	Phe	Trp	Lys	*				
							100			105		107			

<210> 916  
<211> 45  
<212>Amino acid  
<213> Homo sapiens

<400> 916  
Gln Lys Arg Phe Pro Ser Asn Cys Gly Arg Asp Gly Lys Leu Phe Leu  
1               5                           10                           15  
Trp Gly Gln Ala Leu His Ile Ile Ala Lys Leu Leu Gly Lys Trp Arg  
20              25                           30  
Arg Leu Gly Met Val Phe Phe Ser Leu Leu Leu Ser Tyr  
35                          40                                   45

<210> 917  
<211> 180  
<212>Amino acid  
<213> Homo sapiens

<400> 917  
Val His Val Cys Ser Ser Lys Met Gly Ala Leu Ser Thr Glu Arg Leu  
1               5                           10                           15  
Gln Tyr Tyr Thr Gln Glu Leu Gly Val Arg Glu Arg Ser Gly His Ser  
20              25                           30  
Val Ser Leu Ile Asp Leu Trp Gly Leu Leu Val Glu Tyr Leu Leu Tyr  
35              40                           45  
Gln Glu Glu Asn Pro Ala Lys Leu Ser Asp Gln Gln Glu Ala Val Arg  
50               55                           60  
Gln Gly Gln Asn Pro Tyr Pro Ile Tyr Thr Ser Val Asn Val Arg Thr  
65               70                           75                           80  
Asn Leu Ser Gly Glu Asp Phe Ala Glu Trp Cys Glu Phe Thr Pro Tyr  
85               90                           95  
Glu Val Gly Phe Pro Lys Tyr Gly Ala Tyr Val Pro Thr Glu Leu Phe  
100              105                           110  
Gly Ser Glu Leu Phe Met Gly Arg Leu Leu Gln Leu Gln Pro Glu Pro  
115              120                           125  
Arg Ile Cys Tyr Leu Gln Gly Met Trp Gly Ser Ala Phe Ala Thr Ser  
130              135                           140  
Leu Asp Glu Ile Phe Leu Lys Thr Ala Gly Ser Gly Leu Ser Phe Leu  
145              150                           155                           160  
Glu Trp Tyr Arg Gly Ser Val Asn Ile Thr Asp Asp Cys Gln Lys Pro  
165              170                           175  
Gln Leu His Asn  
180

<210> 918  
<211> 281  
<212>Amino acid  
<213> Homo sapiens

<400> 918  
 Glu Phe Leu Gly Arg Pro Thr Arg Pro Ala Lys Asp Glu Gly Asn Asp  
 1           5           10           15  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 20           25           30  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp  
 35           40           45  
 Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 50           55           60  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 65           70           75           80  
 Glu Gly Lys Asp Glu Gly Asn Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 85                       90           95  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 100          105          110  
 Glu Arg Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Arg Lys Asp  
 115          120          125  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 130          135          140  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Asn Asp  
 145          150          155          160  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 165          170          175  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Asn Asp Glu Gly Asn Asp  
 180          185          190  
 Glu Gly Asn Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Arg Asn Asp  
 195          200          205  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 210          215          220  
 Glu Arg Asn Asp Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp  
 225          230          235          240  
 Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp Glu Gly Lys Asp  
 245          250          255  
 Glu Gly Asn Asp Glu Gly Lys Asp Glu Arg Lys Asp Glu Gly Lys Asp  
 260          265          270  
 Glu Gly Lys Asp Glu Gly Lys Asp Lys  
 275          280          281

<210> 919  
<211> 147  
<212> Amino acid  
<213> Homo sapiens

<400> 919  
 Pro Ser Leu Arg Pro Ala Trp His Glu Gly Glu Asp Phe Ser Tyr Gly  
 1           5           10           15  
 Leu Gln Pro Tyr Cys Gly Tyr Ser Phe Gln Val Val Gly Glu Met Ile  
 20           25           30  
 Arg Asn Arg Glu Val Leu Pro Cys Pro Asp Asp Cys Pro Ala Trp Ala  
 35           40           45  
 Tyr Ala Leu Met Ile Glu Gly Trp Asn Glu Phe Pro Ser Arg Arg Ala  
 50           55           60  
 Arg Phe Lys Asp Ile His Ser Arg Leu Arg Ala Trp Gly Asn Leu Ser  
 65           70           75           80  
 Asn Tyr Asn Ser Ser Glu Gln Thr Ser Gly Gly Arg Asn Thr Thr Gln  
 85           90           95  
 Thr Ser Ser Leu Ser Thr Ser Pro Leu Cys Asn Val Ser Asn Ala Pro  
 100          105          110  
 Tyr Val Gly Pro Lys Gln Lys Val Pro Pro Phe Pro Gln Thr Gln Val

115	120	125
Ile Pro Met Lys Gly Gln Ile Arg Pro Met Val Pro Pro Pro Gln Leu		
130	135	140
Tyr Val Pro		
145	147	

<210> 920  
<211> 150  
<212>Amino acid  
<213> Homo sapiens

<400> 920		
Arg Asn Ser Gly Arg His Pro Arg Val Arg Trp Ile Leu Glu Glu Arg		
1	5	10
Lys Arg Val Met Gln Glu Ala Cys Ala Lys Tyr Arg Ala Ser Ser Ser		15
20	25	30
Arg Arg Ala Val Thr Pro Arg His Val Ser Arg Ile Phe Val Glu Asp		
35	40	45
Arg His Arg Val Leu Tyr Cys Glu Val Pro Lys Ala Gly Cys Ser Asn		
50	55	60
Trp Lys Arg Val Leu Met Val Leu Ala Gly Leu Ala Ser Ser Thr Ala		
65	70	75
Asp Ile Gln His Asn Thr Val His Tyr Gly Ser Ala Leu Lys Arg Leu		80
85	90	95
Asp Thr Phe Asp Arg Gln Gly Ile Leu His Arg Leu Ser Thr Tyr Thr		
100	105	110
Lys Met Leu Phe Val Arg Glu Pro Phe Glu Arg Leu Val Ser Ala Phe		
115	120	125
Arg Asp Lys Phe Glu His Pro Asn Ser Tyr Tyr His Pro Val Phe Cys		
130	135	140
Met Ala Ile Leu Ala Arg		
145	150	

<210> 921  
<211> 125  
<212>Amino acid  
<213> Homo sapiens

<400> 921		
Ille Met Tyr Ser Ile Ser Pro Ala Asn Ser Glu Glu Gly Gln Glu Leu		
1	5	10
Tyr Val Cys Thr Val Lys Asp Asp Val Asn Leu Asp Thr Val Leu Leu		15
20	25	30
Leu Pro Phe Leu Lys Glu Ile Ala Val Ser Gln Leu Asp Gln Leu Ser		
35	40	45
Pro Glu Glu Gln Leu Leu Val Lys Cys Ala Ala Ile Ile Gly His Ser		
50	55	60
Phe His Ile Asp Leu Leu Gln His Leu Leu Pro Gly Trp Asp Lys Asn		
65	70	75
Lys Leu Leu Gln Val Leu Arg Ala Leu Asp Ile His Val Leu Cys		80
85	90	95
Trp Ser Asp Lys Ser Gln Glu Leu Pro Ala Glu Pro Ile Leu Met Pro		
100	105	110
Ser Ser Ile Asp Ile Ile Asp Gly Thr Lys Glu Lys Lys		

115

120

125

<210> 922  
<211> 111  
<212>Amino acid  
<213> Homo sapiens

<400> 922  
Gly Pro His Val Val Leu Val Leu Arg Arg Cys Phe Leu Leu Ser Tyr  
1 5 10 15  
Phe Lys Gly Val Glu Lys Ala Lys Ala Met Pro Ser Pro Arg Ile Leu  
20 25 30  
Lys Thr His Leu Ser Thr Gln Leu Leu Pro Pro Ser Phe Trp Glu Asn  
35 40 45  
Asn Cys Lys Val Arg Tyr Gln Gln Leu Pro Val Thr Glu Gly Lys Val  
50 55 60  
Ser Gln Pro Lys Arg Val Leu Gln Thr Pro Thr Gln Ser Ile Arg Asp  
65 70 75 80  
His Leu Cys Leu Ser Thr Val Ser Asp Ala Tyr Gln Gln Arg Glu Asn  
85 90 95  
Ile Lys Phe Tyr Ile Gln Gln Asp Ile His Leu Asn Ser Phe Lys  
100 105 110 111

<210> 923  
<211> 69  
<212>Amino acid  
<213> Homo sapiens

<400> 923  
Phe Tyr Tyr Ile Cys Arg Leu Ser Lys Glu Asp Lys Ala Phe Leu Trp  
1 5 10 15  
Glu Lys Arg Tyr Tyr Cys Phe Lys His Pro Asn Cys Leu Pro Lys Ile  
20 25 30  
Leu Ala Ser Ala Pro Asn Trp Lys Trp Val Asn Leu Ala Lys Thr Tyr  
35 40 45  
Ser Leu Leu His Gln Trp Pro Ala Leu Tyr Pro Leu Ile Ala Leu Glu  
50 55 60  
Leu Leu Asp Ser Lys  
65 69

<210> 924  
<211> 120  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(120)  
<223> X = any amino acid or stop code

<400> 924  
 Lys Met Met Ile Xaa Gly Leu Phe Glu Ile Gln Gln Cys Pro Ile Gly  
 1 5 10 15  
 Lys His Cys Asn Phe Leu Gln Val Leu Arg Asn Pro Asn Arg Asp Leu  
 20 25 30  
 Trp Leu Val Ser Ser Phe Gly Lys Ser Ser Lys Gly Arg Glu Arg Met  
 35 40 45  
 Gly His His Asp Glu Tyr Tyr Arg Leu Arg Gly Arg His Asn Pro Ser  
 50 55 60  
 Pro Asp His Ser Tyr Lys Arg Asn Gly Glu Ser Glu Arg Lys Arg Lys  
 65 70 75 80  
 Lys Ser His Xaa His Met Ser Lys Ser Gln Glu Arg His Asn Ser Pro  
 85 90 95  
 Ser Arg Gly Arg Asn Ser Asp Arg Ser Gly Gly Arg Cys Ser Arg Ser  
 100 105 110  
 Asp Asn Gly Arg Ser Arg Tyr Arg  
 115 120

<210> 925  
<211> 108  
<212>Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> (1)...(108)  
<223> X = any amino acid or stop code

<400> 925  
 Pro Leu Ser Leu Phe Ala Arg Val Ala Gly Ser Arg Val Glu Met Pro  
 1 5 10 15  
 Glu Pro Pro Gly Leu Gly Asp Glu Gly Arg Pro Leu Leu His Pro Gly  
 20 25 30  
 Arg Arg Glu Ala Val Gly Ser Trp Val Ser Ala Phe Ala Gly Asp Ser  
 35 40 45  
 Thr Pro Cys Gly Pro Gly Asp Leu Ser Val Pro Arg Arg Glu Pro Phe  
 50 55 60  
 Arg Leu Thr Ala Leu Xaa Pro His Arg Ser Pro Val Val Arg Thr Ser  
 65 70 75 80  
 Leu Ile Gly Leu Leu Leu Gly Phe Ser Val Lys Glu Glu Leu Arg Gly  
 85 90 95  
 Val Gly Trp Ala Ala Arg Thr Pro Leu Gly Ile Arg  
 100 105 108

<210> 926  
<211> 305  
<212>Amino acid  
<213> Homo sapiens

<400> 926  
 Phe Asp Lys Arg Gln His Glu Ala Arg Ile Gln Gln Met Glu Asn Glu  
 1 5 10 15  
 Ile His Tyr Leu Gln Glu Asn Leu Lys Ser Met Glu Glu Ile Gln Gly

20	25	30
Leu Thr Asp Leu Gln Leu Gln Glu Ala Asp Glu Glu Lys Glu Arg Ile		
35	40	45
Leu Ala Gln Leu Arg Glu Leu Glu Lys Lys Lys Leu Glu Asp Ala		
50	55	60
Lys Ser Gln Glu Gln Val Phe Gly Leu Asp Lys Glu Leu Lys Lys Leu		
65	70	75
Lys Lys Ala Val Ala Thr Ser Asp Lys Leu Ala Thr Ala Glu Leu Thr		
85	90	95
Ile Ala Lys Asp Gln Leu Lys Ser Leu His Gly Thr Val Met Lys Ile		
100	105	110
Asn Gln Glu Arg Ala Glu Glu Leu Gln Glu Ala Glu Arg Phe Ser Arg		
115	120	125
Lys Ala Ala Gln Ala Ala Arg Asp Leu Thr Arg Ala Glu Ala Glu Ile		
130	135	140
Glu Leu Leu Gln Asn Leu Leu Arg Gln Lys Gly Glu Gln Phe Arg Leu		
145	150	155
Glu Met Glu Lys Thr Gly Val Gly Thr Gly Ala Asn Ser Gln Val Leu		
165	170	175
Glu Ile Glu Lys Leu Asn Glu Thr Met Glu Arg Gln Arg Thr Glu Ile		
180	185	190
Ala Arg Leu Gln Asn Val Leu Tyr Leu Thr Gly Ser Asp Asn Lys Gly		
195	200	205
Gly Phe Glu Asn Val Leu Glu Glu Ile Ala Glu Leu Arg Arg Glu Gly		
210	215	220
Ser Tyr Gln Asn Asp Tyr Ile Ser Ser Met Ala Asp Pro Phe Lys Arg		
225	230	235
Arg Gly Tyr Trp Tyr Phe Met Pro Pro Pro Ser Ser Lys Val Ser		
245	250	255
Ser His Ser Ser Gln Ala Thr Lys Asp Ser Gly Val Gly Leu Lys Tyr		
260	265	270
Ser Ala Ser Thr Pro Val Arg Lys Pro Arg Pro Gly Gln Gln Asp Gly		
275	280	285
Lys Glu Gly Ser Gln Pro Pro Ala Ser Gly Tyr Trp Val Val Tyr Ser		
290	295	300
Pro		
305		

<210> 927  
 <211> 303  
 <212>Amino acid  
 <213> Homo sapiens

<400> 927			
Ser Asp Ala Ser Ser Phe Lys Thr Arg Val Ile Val Val Pro Arg Pro			
1	5	10	15
Arg Val Phe Pro Leu Gly Ser Ala Ile Thr Glu Asn Ser Leu Glu Ser			
20	25	30	
Asp Ser Gln Ile Gly Gln Phe Gly Val Gly Phe Tyr Ser Ala Phe Leu			
35	40	45	
Val Ala Asp Lys Val Ile Val Thr Ser Lys His Asn Asn Asp Thr Gln			
50	55	60	
His Ile Trp Glu Ser Asp Ser Asn Glu Phe Ser Val Ile Ala Asp Pro			
65	70	75	80
Arg Gly Asn Thr Leu Gly Arg Gly Thr Ile Thr Leu Val Leu Lys			
85	90	95	
Glu Glu Ala Ser Asp Tyr Leu Glu Leu Asp Thr Ile Lys Asn Leu Val			
100	105	110	
Lys Lys Tyr Ser Gln Phe Ile Asn Phe Pro Ile Tyr Val Trp Ser Ser			

Lys	115	120	125												
Thr	Glu	Thr	Val	Glu	Glu	Pro	Met	Glu	Glu	Glu	Glu	Ala	Ala	Lys	
	130	135	140												
Glu	Glu	Lys	Glu	Glu	Ser	Asp	Asp	Glu	Ala	Ala	Val	Glu	Glu	Glu	
	145	150	155	160											
Glu	Glu	Lys	Pro	Lys	Thr	Lys	Lys	Val	Glu	Lys	Thr	Val	Trp	Asp	
	165	170	175												
Trp	Glu	Leu	Met	Asn	Asp	Ile	Lys	Pro	Ile	Trp	Gln	Arg	Pro	Ser	Lys
	180	185	190												
Glu	Val	Glu	Glu	Asp	Glu	Tyr	Lys	Ala	Phe	Tyr	Lys	Ser	Phe	Ser	Lys
	195	200	205												
Glu	Ser	Asp	Asp	Pro	Met	Ala	Tyr	Ile	His	Phe	Thr	Ala	Glu	Gly	Glu
	210	215	220												
Val	Thr	Phe	Lys	Ser	Ile	Leu	Phe	Val	Pro	Thr	Ser	Ala	Pro	Arg	Gly
	225	230	235	240											
Leu	Phe	Asp	Glu	Tyr	Gly	Ser	Lys	Lys	Ser	Asp	Tyr	Ile	Lys	Leu	Tyr
	245	250	255												
Val	Arg	Arg	Val	Phe	Ile	Thr	Asp	Asp	Phe	His	Asp	Met	Met	Pro	Lys
	260	265	270												
Tyr	Leu	Asn	Phe	Val	Lys	Gly	Val	Val	Asp	Ser	Asp	Asp	Leu	Pro	Leu
	275	280	285												
Asn	Val	Ser	Arg	Glu	Thr	Leu	Gln	Gln	His	Lys	Leu	Leu	Lys	Val	
	290	295	300	303											

<210> 928  
 <211> 147  
 <212>Amino acid  
 <213> Homo sapiens

Cys	Gly	Ser	Trp	Met	Arg	Arg	Ala	Leu	Ile	Pro	Pro	Cys	Arg	Gly	Gly
1				5			10			15					
Pro	Ser	Ala	Ser	Asp	Arg	Cys	Ser	Cys	Ser	Pro	Ser	Gly	Phe	Ser	
							20		25				30		
Ala	Gly	Arg	Gly	Arg	Cys	Pro	Val	Gln	Gly	Cys	Leu	Arg	Pro	His	Arg
							35		40			45			
Val	Gln	Leu	Leu	Arg	Arg	Trp	Gly	Pro	Gly	Ser	Pro	Ala	Gly	Gln	Arg
							50		55			60			
Leu	Ser	Lys	Gly	Phe	Gln	Leu	Leu	Arg	Trp	Trp	Gly	Pro	Gly	Ser	Pro
							65		70		75		80		
Ala	Pro	Glu	Pro	Arg	Lys	Gly	Pro	Phe	Pro	Pro	Pro	Asp	Pro	Pro	Trp
							85		90		95				
Pro	Val	Thr	Ala	Val	Thr	Val	Met	Ala	Gly	Ser	Val	Pro	Ser	Ala	Gln
							100		105		110				
Ser	Val	Asp	Ala	Leu	Glu	Ser	Pro	Gly	Pro	Leu	Ala	Leu	Glu	Gly	Pro
							115		120		125				
Ser	Ser	Pro	Arg	Asn	Leu	Leu	Trp	Arg	Glu	Met	Ser	Ile	Phe	Leu	Pro
							130		135		140				
Gly	Ile	Phe					145		147						

<210> 929  
 <211> 183  
 <212>Amino acid  
 <213> Homo sapiens

<400> 929  
 Pro Gly Pro Thr Pro Pro Pro Arg His Gly Ser Pro Pro His Arg Leu  
 1 5 10 15  
 Ile Arg Val Glu Thr Pro Pro Gly Pro Ala Pro Pro Ala Asp Glu Arg  
 20 25 30  
 Ile Ser Gly Pro Pro Ala Ser Ser Asp Arg Leu Ala Ile Leu Glu Asp  
 35 40 45  
 Tyr Ala Asp Pro Phe Asp Val Gln Glu Thr Gly Glu Gly Ser Ala Gly  
 50 55 60  
 Ala Ser Gly Ala Pro Glu Lys Val Pro Glu Asn Asp Gly Tyr Met Glu  
 65 70 75 80  
 Pro Tyr Glu Ala Gln Lys Met Met Ala Glu Ile Arg Gly Ser Lys Glu  
 85 90 95  
 Thr Ala Thr Gln Pro Leu Pro Leu Tyr Asp Thr Pro Tyr Glu Pro Glu  
 100 105 110  
 Glu Asp Gly Ala Thr Pro Glu Gly Glu Gly Ala Pro Trp Pro Arg Glu  
 115 120 125  
 Ser Arg Leu Pro Glu Asp Asp Glu Arg Pro Pro Glu Glu Tyr Asp Gln  
 130 135 140  
 Pro Trp Glu Trp Lys Lys Glu Arg Ile Ser Lys Ala Phe Ala Val Asp  
 145 150 155 160  
 Ile Lys Val Ile Lys Asp Leu Pro Trp Pro Pro Pro Val Gly Gln Leu  
 165 170 175  
 Asp Ser Ser Pro Ser Leu Pro  
 180 183

<210> 930  
<211> 187  
<212>Amino acid  
<213> Homo sapiens

<400> 930  
 Gln Phe Phe Ser Leu Phe Leu Arg Tyr Gln Ile His Thr Gly Leu Gln  
 1 5 10 15  
 His Ser Ile Ile Arg Pro Thr Gln Pro Asn Cys Leu Pro Leu Asp Asn  
 20 25 30  
 Ala Thr Leu Pro Gln Lys Leu Lys Glu Val Gly Tyr Ser Thr His Met  
 35 40 45  
 Val Gly Lys Trp His Leu Gly Phe Tyr Arg Lys Glu Cys Met Pro Thr  
 50 55 60  
 Arg Arg Gly Phe Asp Thr Phe Phe Gly Ser Leu Leu Gly Ser Gly Asp  
 65 70 75 80  
 Tyr Tyr Thr His Tyr Lys Cys Asp Ser Pro Gly Met Cys Gly Tyr Asp  
 85 90 95  
 Leu Tyr Glu Asn Asp Asn Ala Ala Trp Asp Tyr Asp Asn Gly Ile Tyr  
 100 105 110  
 Ser Thr Gln Met Tyr Thr Gln Arg Val Gln Ile Leu Ala Ser His  
 115 120 125  
 Asn Pro Thr Lys Pro Ile Phe Leu Tyr Ile Ala Tyr Gln Ala Val His  
 130 135 140  
 Ser Pro Leu Gln Ala Pro Gly Arg Tyr Phe Glu His Tyr Arg Ser Ile  
 145 150 155 160  
 Ile Asn Ile Asn Arg Arg Arg Tyr Ala Ala Met Leu Ser Cys Leu Asp  
 165 170 175  
 Glu Ala Ile Asn Asn Val Thr Leu Ala Leu Lys  
 180 185 187

<210> 931  
<211> 192  
<212>Amino acid  
<213> Homo sapiens

<400> 931  
Arg Val Arg Lys Gly Arg Gly Gly Glu Arg Leu Gln Ser Pro Leu Arg  
1               5               10               15  
Val Pro Gln Lys Pro Glu Arg Pro Pro Leu Pro Pro Lys Pro Gln Phe  
20               25               30  
Leu Asn Ser Gly Ala Tyr Pro Gln Lys Pro Leu Arg Asn Gln Gly Val  
35               40               45  
Val Arg Thr Leu Ser Ser Ser Ala Gln Glu Asp Ile Ile Arg Trp Phe  
50               55               60  
Lys Glu Glu Gln Leu Pro Leu Arg Ala Gly Tyr Gln Lys Thr Ser Asp  
65               70               75               80  
Thr Ile Ala Pro Trp Phe His Gly Ile Leu Thr Leu Lys Lys Ala Asn  
85               90               95  
Glu Leu Leu Leu Ser Thr Gly Met Pro Gly Ser Phe Leu Ile Arg Val  
100              105              110  
Ser Glu Arg Ile Lys Gly Tyr Ala Leu Ser Tyr Leu Ser Glu Asp Gly  
115              120              125  
Cys Lys His Phe Leu Ile Asp Ala Ser Ala Asp Ala Tyr Ser Phe Leu  
130              135              140  
Gly Val Asp Gln Leu Gln His Ala Thr Leu Ala Asp Leu Val Glu Tyr  
145              150              155              160  
His Lys Glu Glu Pro Ile Thr Ser Leu Gly Lys Glu Leu Leu Leu Tyr  
165              170              175  
Pro Cys Gly Gln Gln Asp Gln Leu Pro Asp Tyr Leu Glu Leu Phe Glu  
180              185              190              192

<210> 932  
<211> 545  
<212>Amino acid  
<213> Homo sapiens

<400> 932  
Gly Ser Leu Glu Lys Ala Leu Phe Gln Leu Leu Lys Val Trp Gly Gln  
1               5               10               15  
Trp Ala Glu Gln Thr Arg Arg Leu Gln Arg Leu Asp Val Ser Leu Ser  
20               25               30  
Val Ala Arg Val Arg Ser Ala Gly Pro Ser Cys Gln Asn Lys Gly Asp  
35               40               45  
Leu Val Met Glu Ala Leu Leu Glu Gly Ile Gln Asn Arg Gly His Gly  
50               55               60  
Gly Gly Phe Leu Thr Ser Cys Glu Ala Glu Leu Gln Glu Leu Met Lys  
65               70               75               80  
Gln Ile Asp Ile Met Val Ala His Lys Ser Glu Trp Glu Gly Arg  
85               90               95  
Thr His Ala Leu Glu Thr Cys Leu Lys Ile Arg Glu Gln Glu Leu Lys  
100              105              110  
Ser Leu Arg Ser Glu Leu Asp Val Thr His Lys Glu Val Gly Met Leu

115	120	125
His Gln Gln Val Glu Glu His Glu Lys Ile Lys Gln Glu Met Thr Met		
130	135	140
Glu Tyr Lys Gln Glu Leu Lys Lys Leu His Glu Glu Leu Cys Ile Leu		
145	150	155
Lys Arg Ser Tyr Glu Lys Leu Gln Lys Lys Gln Met Arg Glu Phe Arg		
165	170	175
Gly Asn Thr Lys Asn His Arg Glu Asp Arg Ser Glu Ile Glu Arg Leu		
180	185	190
Thr Ala Lys Ile Glu Glu Phe Arg Gln Lys Ser Leu Asp Trp Glu Lys		
195	200	205
Gln Arg Leu Ile Tyr Gln Gln Val Ser Ser Leu Glu Ala Gln Arg		
210	215	220
Lys Ala Leu Ala Glu Gln Ser Glu Ile Ile Gln Ala Gln Leu Val Asn		
225	230	235
Arg Lys Gln Lys Leu Glu Ser Val Glu Leu Ser Ser Gln Ser Glu Ile		
245	250	255
Gln His Leu Ser Ser Lys Leu Glu Arg Ala Asn Asp Thr Ile Cys Ala		
260	265	270
Asn Glu Leu Glu Ile Glu Arg Leu Thr Met Arg Val Asn Asp Leu Val		
275	280	285
Gly Thr Ser Met Thr Val Leu Gln Glu Gln Gln Lys Glu Glu Lys		
290	295	300
Leu Arg Glu Ser Glu Lys Leu Leu Glu Ala Leu Gln Glu Glu Lys Arg		
305	310	315
Glu Leu Lys Ala Ala Leu Gln Ser Gln Glu Asn Leu Ile His Glu Ala		
325	330	335
Arg Ile Gln Lys Glu Lys Leu Gln Glu Lys Val Lys Ala Thr Asn Thr		
340	345	350
Gln His Ala Val Glu Ala Ile Ser Leu Glu Ser Val Ser Ala Thr Cys		
355	360	365
Lys Gln Leu Ser Gln Glu Leu Met Glu Lys Tyr Glu Glu Leu Lys Arg		
370	375	380
Met Glu Ala His Asn Asn Glu Tyr Lys Ala Glu Ile Lys Lys Leu Lys		
385	390	395
Glu Gln Ile Leu Gln Gly Glu Gln Ser Tyr Ser Ser Ala Leu Glu Gly		
405	410	415
Met Lys Met Glu Ile Ser His Leu Thr Gln Glu Leu His Gln Arg Asp		
420	425	430
Ile Thr Ile Ala Ser Thr Lys Gly Ser Ser Ser Asp Met Glu Lys Arg		
435	440	445
Leu Arg Ala Glu Met Gln Lys Ala Glu Asp Lys Ala Val Glu His Lys		
450	455	460
Glu Ile Leu Asp Gln Leu Glu Ser Leu Lys Leu Glu Asn Arg His Leu		
465	470	475
Ser Glu Met Val Met Lys Leu Glu Leu Gly Leu His Glu Cys Ser Leu		
485	490	495
Pro Val Ser Pro Leu Gly Ser Ile Ala Thr Arg Phe Leu Glu Glu Glu		
500	505	510
Glu Leu Arg Ser His His Ile Leu Glu Arg Leu Asp Ala His Ile Glu		
515	520	525
Glu Leu Lys Arg Glu Ser Glu Lys Lys Thr Val Arg Gln Phe Thr Ala Leu		
530	535	540
Lys		
545		

&lt;210&gt; 933

&lt;211&gt; 297

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

<400> 933

Thr	Gly	Phe	Leu	Gly	Trp	Ser	Gln	Gly	Pro	Ser	Leu	Thr	Pro	Thr	Ser
1				5				10				15			
Leu	Ser	Ala	Leu	Tyr	Pro	Ser	Gln	Val	Glu	Thr	Gly	Val	Val	Leu	
				20				25				30			
Ser	Leu	Gln	Gly	Thr	Glu	Gln	His	Ser	Arg	Arg	Pro	Ile	Gln	Arg	Gly
				35				40				45			
Ala	Pro	Ser	Gln	Lys	Asp	Thr	Pro	Asn	Pro	Gly	Asp	Ser	Leu	Asp	Thr
				50				55				60			
Pro	Gly	Pro	Arg	Ile	Leu	Ala	Phe	Leu	His	Pro	Pro	Ser	Leu	Ser	Gly
				65				70				75			80
Ala	Ala	Leu	Ala	Ala	Asp	Pro	Arg	Arg	Phe	Cys	Ser	Pro	Asp	Leu	Arg
				85				90				95			
Arg	Leu	Leu	Gly	Pro	Ile	Leu	Asp	Gly	Ala	Ser	Val	Ala	Ala	Thr	Pro
				100				105				110			
Ser	Thr	Pro	Leu	Ala	Thr	Arg	His	Pro	Gln	Ser	Pro	Leu	Ser	Ala	Asp
				115				120				125			
Leu	Pro	Asp	Glu	Leu	Pro	Val	Gly	Thr	Glu	Asn	Val	His	Arg	Leu	Phe
				130				135				140			
Thr	Ser	Gly	Lys	Asp	Thr	Glu	Ala	Val	Glu	Thr	Asp	Leu	Asp	Ile	Ala
				145				150				155			160
Gln	Asp	Ala	Asp	Ala	Leu	Asp	Leu	Glu	Met	Leu	Ala	Pro	Tyr	Ile	Ser
				165				170				175			
Met	Asp	Asp	Asp	Phe	Gln	Leu	Asn	Ala	Ser	Glu	Gln	Leu	Pro	Arg	Ala
				180				185				190			
Tyr	His	Arg	Pro	Leu	Gly	Ala	Val	Pro	Arg	Pro	Arg	Ala	Arg	Ser	Phe
				195				200				205			
His	Gly	Leu	Ser	Pro	Pro	Ala	Leu	Glu	Pro	Ser	Leu	Leu	Pro	Arg	Trp
				210				215				220			
Gly	Ser	Asp	Pro	Arg	Leu	Ser	Cys	Ser	Ser	Pro	Ser	Arg	Gly	Asp	Pro
				225				230				235			240
Ser	Ala	Ser	Ser	Pro	Met	Ala	Gly	Ala	Arg	Lys	Arg	Thr	Leu	Ala	Gln
				245				250				255			
Ser	Ser	Lys	Asp	Glu	Asp	Glu	Gly	Val	Glu	Leu	Leu	Gly	Val	Arg	Pro
				260				265				270			
Pro	Lys	Arg	Ser	Pro	Ser	Pro	Glu	His	Glu	Asn	Phe	Leu	Leu	Phe	Pro
				275				280				285			
Leu	Ser	Leu	Ser	Phe	Leu	Leu	Thr	Gly							
				290				295				297			

&lt;210&gt; 934

&lt;211&gt; 140

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

<400> 934

Glu	Leu	Gln	Asp	Cys	Phe	Asp	Val	His	Asp	Ala	Ser	Trp	Glu	Glu	Gln
1				5				10				15			
Ile	Phe	Trp	Gly	Trp	His	Asn	Asp	Val	His	Ile	Phe	Asp	Thr	Lys	Thr
				20				25				30			
Gln	Thr	Trp	Phe	Gln	Pro	Glu	Ile	Lys	Gly	Gly	Val	Pro	Pro	Gln	Pro
				35				40				45			
Arg	Ala	Ala	His	Thr	Cys	Ala	Val	Leu	Gly	Asn	Lys	Gly	Tyr	Ile	Phe
				50				55				60			
Gly	Gly	Arg	Val	Leu	Gln	Thr	Arg	Met	Asn	Asp	Leu	His	Tyr	Leu	Asn
				65				70				75			80
Leu	Asp	Asp	Thr	Trp	Trp	Ser	Gly	Arg	Ile	Thr	Ile	Asn	Gly	Gl	Ser

Pro Lys His Arg Ser Trp His Thr Leu Thr Pro Ile Ala Asp Asp Lys	95
100	105
Leu Phe Leu Cys Gly Gly Leu Asn Ala Tyr Asn Met Pro Leu Ser Asp	110
115	120
Gly Trp Ile His Asn Val Thr Thr His Cys Trp Lys	125
130	135
	140

<210> 935  
<211> 97  
<212>Amino acid  
<213> Homo sapiens

<400> 935		
Phe Phe Phe Leu Arg Thr Arg Ser His Ser Val Thr Pro Arg Trp Glu		
1	5	10
Cys Ser Asp Asp Ile Thr Ala His Trp Gln Pro Gln Pro Trp Gly Ser		15
20	25	30
Ser Asp Pro Leu Thr Phe Ser Arg Pro Gln Val Val Val Pro Pro Arg		
35	40	45
His Thr Thr Leu Cys Pro Ala Asn Phe Phe Val Phe Cys Ile Phe Cys		
50	55	60
Arg Asn Arg Ile Ser Pro Cys Trp Pro Gly Trp Ser Arg Thr Pro Trp		
65	70	75
Ala Gln Leu Ile Arg Leu Pro Arg Pro Pro Lys Val Leu Gly Leu Gln		80
85	90	95
Val		
97		

<210> 936  
<211> 245  
<212>Amino acid  
<213> Homo sapiens

<400> 936		
Pro Arg Glu Gly Gln Val Lys Gln Gly Leu Leu Gly Asp Cys Trp Phe		
1	5	10
Leu Cys Ala Cys Ala Ala Leu Gln Lys Ser Arg His Leu Leu Asp Gln		15
20	25	30
Val Ile Pro Pro Gly Gln Pro Ser Trp Ala Asp Gln Glu Tyr Arg Gly		
35	40	45
Ser Phe Thr Cys Arg Ile Trp Gln Phe Gly Arg Trp Val Glu Val Thr		
50	55	60
Thr Asp Asp Arg Leu Pro Cys Leu Ala Gly Arg Leu Cys Phe Ser Arg		
65	70	75
Cys Gln Arg Glu Asp Val Phe Trp Leu Pro Leu Leu Glu Lys Val Tyr		80
85	90	95
Ala Lys Val His Gly Ser Tyr Glu His Leu Trp Ala Gly Gln Val Ala		
100	105	110
Asp Ala Leu Val Asp Leu Thr Gly Gly Leu Ala Glu Arg Trp Asn Leu		
115	120	125
Lys Gly Val Ala Gly Ser Gly Gly Gln Gln Asp Arg Pro Gly Arg Trp		
130	135	140
Glu His Arg Thr Cys Arg Gln Leu Leu His Leu Lys Asp Gln Cys Leu		

145	150	155	160
Ile Ser Cys Cys Val Leu Ser Pro Arg Ala Gly Glu Ala Arg Gly Gln			
165	170	175	
His Gly Arg Ala Ala Ala Ser Val Pro Pro Thr Ala Arg Pro Gln Ala			
180	185	190	
His Cys Ser Phe Leu Cys Asp Trp Leu His Ser Pro Val Arg Thr Lys			
195	200	205	
Trp Glu Glu Val Ser Leu Phe Ser Arg Val Val Ser Ser Val Cys Asp			
210	215	220	
Leu Pro Ieu Leu Ser Ser Arg Gly Thr Trp Pro Phe Ser Pro Leu			
225	230	235	240
Thr Ser Pro Phe His			
245			

<210> 937  
<211> 211  
<212>Amino acid  
<213> Homo sapiens

<400> 937			
Ala Glu Cys Leu Glu Ala Ser Ile Ala Arg Tyr Ala His Arg Val Ala	1	5	10
			15
Asn Ser Arg Tyr Thr Phe Asp Gly Glu Thr Val Thr Leu Ser Pro Ser	20	25	30
Gln Gly Val Asn Gln Leu His Gly Gly Pro Glu Gly Phe Asp Lys Arg	35	40	45
Arg Trp Gln Ile Val Asn Gln Asn Asp Arg Gln Val Leu Phe Ala Leu	50	55	60
Ser Ser Asp Asp Gly Asp Gln Gly Phe Pro Gly Asn Leu Gly Ala Thr	65	70	75
			80
Val Gln Tyr Arg Leu Thr Asp Asp Asn Arg Ile Ser Ile Thr Tyr Arg	85	90	95
Ala Thr Val Asp Lys Pro Cys Pro Val Asn Met Thr Asn His Val Tyr	100	105	110
Phe Asn Leu Asp Gly Glu Gln Ser Asp Val Arg Asn His Lys Leu Gln	115	120	125
Ile Leu Ala Asp Glu Tyr Leu Pro Val Asp Glu Gly Gly Ile Pro His	130	135	140
Asp Gly Leu Lys Ser Val Ala Gly Thr Ser Phe Asp Phe Arg Ser Ala	145	150	155
			160
Lys Ile Ile Ala Ser Glu Phe Leu Ala Asp Asp Asp Gln Arg Lys Val	165	170	175
Lys Gly Tyr Asp His Ala Phe Leu Leu Gln Ala Lys Gly Asp Gly Lys	180	185	190
Lys Val Ala Ala His Val Trp Ser Ala Asp Glu Lys Leu Gln Leu Lys	195	200	205
Val Tyr Thr	210	211	

<210> 938  
<211> 118  
<212>Amino acid  
<213> Homo sapiens

<400> 938  
 Pro Leu Ser Arg Phe Leu Ser Lys Glu Ser Gln Glu Asp Trp Gly Met  
 1 5 10 15  
 Glu Arg Gln Ser Arg Val Met Ser Glu Lys Asp Glu Tyr Gln Phe Gln  
 20 25 30  
 His Gln Gly Ala Val Glu Leu Leu Val Phe Asn Phe Leu Leu Ile Leu  
 35 40 45  
 Thr Ile Leu Thr Ile Trp Leu Phe Lys Asn His Arg Phe Arg Phe Leu  
 50 55 60  
 His Glu Thr Gly Gly Ala Met Val Tyr Asp Lys Pro Pro Lys Phe Ala  
 65 70 75 80  
 Met Ser Arg Glu Gln Met Ser Gln Ser Cys Ser His Thr Ala His Asn  
 85 90 95  
 Ala Ser Leu Leu Thr Asp Ala Gly Pro Leu Ser Cys Gly Glu Ser Arg  
 100 105 110  
 Ala Ser Cys Leu Phe Leu  
 115 118

<210> 939  
 <211> 143  
 <212>Amino acid  
 <213> Homo sapiens

<400> 939  
 Asp Ser Lys Glu Pro Arg Leu Gln Gln Leu Gly Leu Leu Glu Glu  
 1 5 10 15  
 Gln Leu Arg Gly Leu Gly Phe Arg Gln Thr Arg Gly Tyr Lys Ser Leu  
 20 25 30  
 Ala Gly Cys Leu Gly His Gly Pro Leu Val Leu Gln Leu Leu Ser Phe  
 35 40 45  
 Thr Leu Leu Ala Gly Leu Leu Val Gln Val Ser Lys Val Pro Ser Ser  
 50 55 60  
 Ile Ser Gln Glu Gln Ser Arg Gln Asp Ala Ile Tyr Gln Asn Leu Thr  
 65 70 75 80  
 Gln Leu Lys Ala Ala Val Gly Glu Leu Ser Glu Lys Ser Lys Leu Gln  
 85 90 95  
 Glu Ile Tyr Gln Glu Leu Thr Gln Leu Lys Ala Ala Val Gly Glu Leu  
 100 105 110  
 Pro Glu Lys Ser Lys Leu Gln Glu Ile Tyr Gln Glu Leu Thr Trp Leu  
 115 120 125  
 Lys Ala Ala Val Gly Glu Leu Pro Glu Lys Ser Lys Met Gln Glu  
 130 135 140 143

<210> 940  
 <211> 63  
 <212>Amino acid  
 <213> Homo sapiens

<400> 940  
 Met Gln Ser Ile Ala Trp Gly His Arg Arg Asp Arg Gly Glu Ser Pro  
 1 5 10 15  
 Leu Gly Trp Gly Gln Glu Ser Glu Ala Ser Pro Ser Ala Leu Thr Glu  
 20 25 30  
 Ala Pro Lys Ala Ala His Thr Thr Arg Leu Gly Phe Leu Ala Ala Asn

35	40	45
Asn Pro Asn Gly His Ser Gln Pro Gln Asp Ser Phe Leu Leu *		
50	55	60      62

<210> 941  
<211> 238  
<212>Amino acid  
<213> Homo sapiens

<400> 941  
Phe Glu Thr Leu Ser Met Arg Gly Ile Pro His Met Leu Ala Leu Gly  
1                5                10                15  
Pro Gln Gln Leu Leu Ala Gln Asp Glu Glu Gly Asp Thr Leu Leu His  
20                25                30  
Leu Phe Ala Ala Arg Gly Leu Arg Trp Ala Ala Tyr Ala Ala Ala Glu  
35                40                45  
Val Leu Gln Val Tyr Arg Arg Leu Asp Ile Arg Glu His Lys Gly Lys  
50                55                60  
Thr Pro Leu Leu Val Ala Ala Ala Ala Asn Gln Pro Leu Ile Val Glu  
65                70                75                80  
Asp Leu Leu Asn Leu Gly Ala Glu Pro Asn Ala Ala Asp His Gln Gly  
85                90                95  
Arg Ser Val Leu His Val Ala Ala Thr Tyr Gly Leu Pro Gly Val Leu  
100                105                110  
Leu Ala Val Leu Asn Ser Gly Val Glu Val Asp Leu Glu Ala Arg Asp  
115                120                125  
Phe Glu Gly Leu Thr Pro Leu His Thr Ala Ile Leu Ala Leu Asn Val  
130                135                140  
Ala Met Arg Pro Ser Asp Leu Cys Pro Arg Val Leu Ser Thr Gln Ala  
145                150                155                160  
Arg Asp Arg Leu Asp Cys Val His Met Leu Leu Gln Met Gly Ala Asn  
165                170                175  
His Thr Ile Gln Val Ser Gly Asp Val Gly Gly Gln Thr Leu Gly Asp  
180                185                190  
Cys Val Glu Trp Gly His Leu Asp Val Arg Glu Leu Gln Ala Asn Ala  
195                200                205  
Asp Phe Ala Ser Ser Leu Leu Arg Ala Leu Glu His Val Thr Ser Leu  
210                215                220  
Leu Cys Ala Leu Arg Val Phe Cys Leu Phe Leu Cys Gln Leu  
225                230                235                238

<210> 942  
<211> 158  
<212>Amino acid  
<213> Homo sapiens

<400> 942  
Asp Ala Trp Ala Asp Ala Trp Val Gly Thr Lys Met Ala Asp Leu Asp  
1                5                10                15  
Ser Pro Pro Lys Leu Ser Gly Val Gln Gln Pro Ser Glu Gly Val Gly  
20                25                30  
Gly Gly Arg Cys Ser Glu Ile Ser Ala Glu Leu Ile Arg Ser Leu Thr  
35                40                45  
Glu Leu Gln Glu Leu Glu Ala Val Tyr Glu Arg Leu Cys Gly Glu Glu

50	55	60		
Lys Val Val Glu Arg Glu Leu Asp Ala Leu Leu Glu Gln Gln Asn Thr	65	70	75	80
Ile Glu Ser Lys Met Val Thr Leu His Arg Met Gly Pro Asn Leu Gln	85	90	95	
Leu Ile Glu Gly Asp Ala Lys Gln Leu Ala Gly Met Ile Thr Phe Thr	100	105	110	
Cys Asn Leu Ala Glu Asn Val Ser Ser Lys Val Arg Gln Leu Asp Leu	115	120	125	
Ala Lys Asn Arg Leu Tyr Gln Ala Ile Gln Arg Ala Asp Asp Ile Leu	130	135	140	
Asp Leu Lys Phe Cys Met Asp Gly Val Gln Thr Ala Leu Arg	145	150	155	158

<210> 943  
<211> 235  
<212>Amino acid  
<213> Homo sapiens

<400> 943				
Ala Val Glu Phe Arg Val Pro Arg Ser Gly Ser Ala Tyr Leu Tyr Ser	1	5	10	15
Tyr Val Thr Val Gly Glu Leu Trp Ala Phe Thr Thr Gly Trp Asn Leu	20	25	30	
Ile Leu Ser Tyr Val Ile Gly Thr Ala Ser Val Ala Arg Ala Trp Ser	35	40	45	
Ser Ala Phe Asp Asn Leu Ile Gly Asn His Ile Ser Lys Thr Leu Gln	50	55	60	
Gly Ser Ile Ala Leu His Val Pro His Val Leu Ala Glu Tyr Pro Asp	65	70	75	80
Phe Phe Ala Leu Gly Leu Val Leu Leu Leu Thr Gly Leu Leu Ala Leu	85	90	95	
Gly Ala Ser Glu Ser Ala Leu Val Thr Lys Val Phe Thr Gly Val Asn	100	105	110	
Leu Leu Val Leu Gly Phe Val Met Ile Ser Gly Phe Val Lys Gly Asp	115	120	125	
Val His Asn Trp Lys Leu Thr Glu Glu Asp Tyr Glu Leu Ala Met Ala	130	135	140	
Glu Leu Asn Asp Thr Tyr Ser Leu Gly Pro Leu Gly Ser Gly Gly Phe	145	150	155	160
Val Pro Phe Gly Phe Glu Gly Ile Leu Arg Gly Ala Ala Thr Cys Phe	165	170	175	
Tyr Ala Phe Val Gly Phe Asp Cys Ile Ala Thr Thr Gly Glu Glu Ala	180	185	190	
Gln Asn Pro Gln Arg Ser Ile Pro Met Gly Ile Gly Ile Ser Leu Ser	195	200	205	
Val Cys Phe Leu Ala Asp Phe Ala Val Ser Ser Ala Leu Thr Leu Met	210	215	220	
Met Pro Tyr Tyr Gln Leu Gln Pro Glu Ser Pro	225	230	235	

<210> 944  
<211> 284  
<212>Amino acid  
<213> Homo sapiens

<400> 944

Gly	Phe	His	Pro	Asn	Thr	Thr	His	Tyr	Arg	Ala	Arg	Ala	Ala	Ala	Arg
1															15
Ala	Gly	Ala	Gly	Ser	Phe	Val	Gly	Glu	Val	Ser	Ala	Val	Asp	Lys	Asp
															20
Phe	Gly	Pro	Asn	Gly	Glu	Val	Arg	Tyr	Ser	Phe	Glu	Met	Val	Gln	Pro
															25
Asp	Phe	Glu	Leu	His	Ala	Ile	Ser	Gly	Ile	Thr	Asn	Thr	His	Gln	
															30
Phe	Asp	Arg	Glu	Ser	Leu	Met	Arg	Arg	Arg	Gly	Thr	Ala	Val	Phe	Ser
															35
Phe	Thr	Val	Ile	Ala	Thr	Asp	Gln	Gly	Ile	Pro	Gln	Pro	Leu	Lys	Asp
															40
Gln	Ala	Ala	Thr	Val	His	Val	Tyr	Met	Lys	Asp	Ile	Asn	Asp	Asn	Ala
															45
Lys	Phe	Leu	Lys	Asp	Phe	Tyr	Gln	Ala	Thr	Ile	Ser	Glu	Ser	Ala	Ala
															50
Asn	Ile	Thr	Gln	Val	Val	Leu	Arg	Val	Ser	Ala	Ser	Asp	Val	Asp	Gly
															55
Asn	Asn	Gly	Leu	Ile	His	Tyr	Ser	Ile	Ile	Lys	Gly	Asn	Glu	Glu	Arg
															60
Gln	Phe	Ala	Ile	Asp	Ser	Thr	Ser	Gly	Gln	Val	Thr	Leu	Ile	Gly	Lys
															65
Leu	Asp	Tyr	Glu	Ala	Thr	Pro	Ala	Tyr	Ser	Leu	Val	Ile	Gln	Ala	Val
															70
Asp	Ser	Gly	Thr	Ile	Pro	Leu	Asn	Ser	Thr	Cys	Thr	Leu	Asn	Ile	Asp
															75
Ile	Leu	Asp	Glu	Asn	Asp	Asn	Thr	Pro	Phe	Phe	Leu	Leu	Asn	Gln	His
															80
Phe	Phe	Val	Asp	Val	Leu	Glu	Asn	Met	Arg	Ile	Gly	Glu	Leu	Gly	Ala
															85
Ser	Gly	Thr	Ala	Thr	Asp	Ser	Ser	Gly	Asp	Ile	Ala	Asp	Leu	Tyr	
															90
Tyr	Lys	Phe	Thr	Gly	Thr	Lys	His	Pro	Pro	Gly	Thr	Phe	Ser	Ile	Ser
															95
Pro	Lys	His	Leu	Gly	Val	Phe	Phe	Leu	Ala	Gln	Lys				
															100
															105
															110
															115
															120
															125
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															255
															260
															265
															270
															275
															280
															284

<210> 945  
<211> 119  
<212>Amino acid  
<213> Homo sapiens

<400> 945

Gly	Asp	Cys	Tyr	Asp	Leu	Tyr	Gly	Gly	Glu	Lys	Phe	Ala	Thr	Leu	Ala
1															15
Glu	Leu	Val	Gln	Tyr	Tyr	Met	Glu	His	His	Gly	Gln	Leu	Lys	Glu	
															20
Asn	Gly	Asp	Val	Ile	Glu	Leu	Lys	Asn	Pro	Leu	Asn	Cys	Ala	Asp	Pro
															25
Thr	Ser	Gln	Arg	Trp	Phe	His	Gly	His	Leu	Ser	Gly	Lys	Glu	Ala	Glu
															30
Lys	Leu	Leu	Thr	Glu	Lys	Lys	His	Ser	Ser	Phe	Leu	Val	Arg	Glu	
															35
Ser	Gln	Ser	His	Pro	Gly	Asp	Phe	Val	Leu	Ser	Val	Cys	Thr	Gly	Asp
															40
Asp	Lys	Gly	Gl	Ser	Asn	Asp	Gly	Lys	Ser	Lys	Val	Thr	His	Val	Met
															45

100	105	
Ile His Cys Gln Glu Leu Lys		
115	119	

110

<210> 946  
<211> 166  
<212>Amino acid  
<213> Homo sapiens

<400> 946

Ile Asp Ser Gly Asn Gln Asn Gly Gly Asn Asp Asp Lys Thr Lys Asn			
1	5	10	15
Ala Glu Arg Asn Tyr Leu Asn Val Leu Pro Gly Glu Phe Tyr Ile Thr			
20	25	30	
Arg His Ser Asn Leu Ser Glu Ile His Val Ala Phe His Leu Cys Val			
35	40	45	
Asp Asp His Val Lys Ser Gly Asn Ile Thr Ala Arg Asp Pro Ala Ile			
50	55	60	
Met Gly Leu Arg Asn Ile Leu Lys Val Cys Cys Thr His Asp Ile Thr			
65	70	75	80
Thr Ile Ser Ile Pro Leu Leu Leu Val His Asp Met Ser Glu Glu Met			
85	90	95	
Thr Ile Pro Trp Cys Leu Arg Arg Ala Glu Leu Val Phe Lys Cys Val			
100	105	110	
Lys Gly Phe Met Met Glu Met Ala Ser Trp Asp Gly Gly Ile Ser Arg			
115	120	125	
Thr Val Gln Phe Leu Val Pro Gln Ser Ile Ser Glu Glu Met Phe Tyr			
130	135	140	
Gln Leu Ser Asn Met Leu Pro Gln Ile Phe Arg Val Ser Ser Thr Leu			
145	150	155	160
Thr Leu Thr Ser Lys His			
165	166		

<210> 947  
<211> 121  
<212>Amino acid  
<213> Homo sapiens

<400> 947

Ser Ile Leu Pro Ala Leu Leu Val Thr Ile Leu Ile Phe Met Asp Gln			
1	5	10	15
Gln Ile Thr Ala Val Ile Val Asn Arg Lys Glu Asn Lys Leu Lys Lys			
20.	25	30	
Ala Ala Gly Tyr His Leu Asp Leu Phe Trp Val Gly Ile Leu Met Ala			
35	40	45	
Leu Cys Ser Phe Met Gly Leu Pro Trp Tyr Val Ala Ala Thr Val Ile			
50	55	60	
Ser Ile Ala His Ile Asp Ser Leu Lys Met Glu Thr Glu Thr Ser Ala			
65	70	75	80
Pro Gly Glu Gln Pro Gln Phe Leu Gly Val Arg Glu Gln Arg Val Thr			
85	90	95	
Gly Ile Ile Val Phe Ile Leu Thr Gly Ile Ser Val Phe Leu Ala Pro			
100	105	110	
Ille Leu Lys Cys Ile Pro Leu Pro Val			

115

120 121

<210> 948  
<211> 191  
<212>Amino acid  
<213> Homo sapiens

<400> 948  
Gly Ala Ser Arg Val Glu Ala Gly Ser Ala Asn Gly Met Leu Ile Asp  
1           5               10                   15  
Gly Gly Ser Gln Ile Val Lys Val Gln Gly His Ala Asp Gly Thr Thr  
20                   25                       30  
Ile Asn Lys Ser Gly Ser Gln Asp Val Val Gln Gly Ser Leu Ala Thr  
35                   40                       45  
Asn Thr Thr Ile Asn Gly Gly Arg Gln Tyr Val Glu Gln Ser Thr Val  
50                   55                       60  
Glu Thr Thr Thr Ile Lys Asn Gly Gly Glu Gln Arg Val Tyr Glu Ser  
65                   70                       75                       80  
Arg Ala Leu Asp Thr Thr Ile Glu Gly Gly Thr Gln Ser Leu Asn Ser  
85                   90                       95  
Lys Ser Thr Ala Lys Asn Thr His Ile Tyr Ser Gly Gly Thr Gln Ile  
100               105                       110  
Val Asp Asn Thr Ser Thr Ser Asp Val Ile Glu Val Tyr Ser Gly Gly  
115               120                       125  
Val Leu Asp Val Arg Gly Gly Thr Ala Thr Asn Val Thr Gln His Asp  
130               135                       140  
Gly Ala Ile Leu Lys Thr Asn Thr Asn Gly Thr Thr Val Ser Gly Thr  
145               150                       155                       160  
Asn Ser Glu Gly Ala Phe Ser Ile His Asn His Val Ala Asp Asn Val  
165               170                       175  
Leu Leu Glu Asn Gly Gly His Leu Asp Ile Asn Ala Tyr Gly Ser  
180               185                       190 191

<210> 949  
<211> 98  
<212>Amino acid  
<213> Homo sapiens

<400> 949  
Phe Phe Ser Ser Ile Gln Leu Thr Asp Asp Gln Gly Pro Val Leu Met  
1           5               10                   15  
Thr Thr Val Ala Met Pro Val Phe Ser Lys Gln Asn Glu Thr Arg Ser  
20                   25                       30  
Lys Gly Ile Leu Leu Gly Val Val Gly Thr Asp Val Pro Val Lys Glu  
35               40                       45  
Leu Leu Lys Thr Ile Pro Lys Tyr Lys Val Met Asn Asp Leu Ile Pro  
50               55                       60  
Glu Ile Lys Ala Thr Glu Met Pro Arg Ala Leu Phe Ser Gln Ser Ser  
65               70                       75                       80  
Gly Phe Lys Leu Tyr Phe Gly Ala Met Phe Leu Leu Thr Thr Ile Thr  
85               90                       95  
Ala Cys  
98

<210> 950  
<211> 196  
<212>Amino acid  
<213> Homo sapiens

<400> 950  
Ser Cys Ser Gly Thr Gly Thr Asn Ala Cys Tyr Met Glu Asp Met Ser  
1 5 10 15  
Asn Ile Asp Leu Val Glu Gly Asp Glu Gly Arg Met Cys Ile Asn Thr  
20 25 30  
Glu Trp Gly Ala Phe Gly Asp Asp Gly Ala Leu Glu Asp Ile Arg Thr  
35 40 45  
Glu Phe Asp Arg Glu Leu Asp Leu Gly Ser Leu Asn Pro Gly Lys Gln  
50 55 60  
Leu Phe Glu Lys Met Ile Ser Gly Leu Tyr Leu Gly Glu Leu Val Arg  
65 70 75 80  
Leu Ile Leu Leu Lys Met Ala Lys Ala Gly Leu Leu Phe Gly Gly Glu  
85 90 95  
Lys Ser Ser Ala Leu His Thr Lys Gly Lys Ile Glu Thr Arg His Val  
100 105 110  
Ala Ala Met Glu Lys Tyr Lys Glu Gly Leu Ala Asn Thr Arg Glu Ile  
115 120 125  
Leu Val Asp Leu Gly Leu Glu Pro Ser Glu Ala Asp Cys Ile Ala Val  
130 135 140  
Gln His Val Cys Thr Ile Val Ser Phe Arg Ser Ala Asn Leu Cys Ala  
145 150 155 160  
Ala Ala Leu Ala Ala Ile Leu Thr Arg Leu Arg Glu Asn Lys Lys Val  
165 170 175  
Glu Arg Leu Arg Thr Thr Val Gly Met Asp Gly Thr Leu Tyr Lys Ile  
180 185 190  
His Pro Gln Tyr  
195 196

<210> 951  
<211> 721  
<212>Amino acid  
<213> Homo sapiens

<400> 951  
Phe Val Ala Ile Ala Thr Asn Gly Val Val Pro Ala Gly Gly Ser Tyr  
1 5 10 15  
Tyr Met Ile Ser Arg Ser Leu Gly Pro Glu Phe Gly Ala Val Gly  
20 25 30  
Leu Cys Phe Tyr Leu Gly Thr Thr Phe Ala Gly Ala Met Tyr Ile Leu  
35 40 45  
Gly Thr Ile Glu Ile Leu Leu Ala Tyr Leu Phe Pro Ala Met Ala Ile  
50 55 60  
Phe Lys Ala Glu Asp Ala Ser Gly Glu Ala Ala Ala Met Leu Asn Asn  
65 70 75 80  
Met Arg Val Tyr Gly Thr Cys Val Leu Thr Cys Met Ala Thr Val Val  
85 90 95  
Phe Val Gly Val Lys Tyr Val Asn Lys Phe Ala Leu Val Phe Leu Gly  
100 105 110  
Cys Val Ile Leu Ser Ile Leu Ala Ile Tyr Ala Gly Val Ile Lys Ser

115	120	125
Ala Phe Asp Pro Pro Asn Phe Pro Ile Cys Leu Leu Gly Asn Arg Thr		
130	135	140
Leu Ser Arg His Gly Phe Asp Val Cys Ala Lys Leu Ala Trp Glu Gly		
145	150	155
Asn Glu Thr Val Thr Arg Leu Trp Gly Leu Phe Cys Ser Ser Arg		160
. 165	170	175
Phe Leu Asn Ala Thr Cys Asp Glu Tyr Phe Thr Arg Asn Asn Val Thr		
180	185	190
Glu Ile Gln Gly Ile Pro Gly Ala Ala Ser Gly Leu Ile Lys Glu Asn		
195	200	205
Leu Trp Ser Ser Tyr Leu Thr Lys Gly Val Ile Val Glu Arg Ser Gly		
210	215	220
Met Thr Ser Val Gly Leu Ala Asp Gly Thr Pro Ile Asp Met Asp His		
225	230	235
Pro Tyr Val Phe Ser Asp Met Thr Ser Tyr Phe Thr Leu Leu Val Gly		240
245	250	255
Ile Tyr Phe Pro Ser Val Thr Gly Ile Met Ala Gly Ser Asn Arg Ser		
260	265	270
Gly Asp Leu Arg Asp Ala Gln Lys Ser Ile Pro Thr Gly Thr Ile Leu		
275	280	285
Ala Ile Ala Thr Thr Ser Ala Val Tyr Ile Ser Ser Val Val Leu Phe		
290	295	300
Gly Ala Cys Ile Glu Gly Val Val Leu Arg Asp Lys Phe Gly Glu Ala		
305	310	315
Val Asn Gly Asn Leu Val Val Gly Thr Leu Ala Trp Pro Ser Pro Trp		320
325	330	335
Val Ile Val Ile Gly Ser Phe Ser Thr Cys Gly Ala Gly Leu Gln		
340	345	350
Ser Leu Thr Gly Ala Pro Arg Leu Leu Gln Ala Ile Ser Arg Asp Gly		
355	360	365
Ile Val Pro Phe Leu Gln Val Phe Gly His Gly Lys Ala Asn Gly Glu		
370	375	380
Pro Thr Trp Ala Leu Leu Thr Ala Cys Ile Cys Glu Ile Gly Ile		
385	390	395
Leu Ile Ala Ser Leu Asp Glu Val Ala Pro Ile Leu Ser Met Phe Phe		400
405	410	415
Leu Met Cys Tyr Met Phe Val Asn Leu Ala Cys Ala Val Gln Thr Leu		
420	425	430
Leu Arg Thr Pro Asn Trp Arg Pro Arg Phe Arg Tyr Tyr His Trp Thr		
435	440	445
Leu Ser Phe Leu Gly Met Ser Leu Cys Leu Ala Leu Met Phe Ile Cys		
450	455	460
Ser Trp Tyr Tyr Ala Leu Val Ala Met Leu Ile Ala Gly Leu Ile Tyr		
465	470	475
Lys Tyr Ile Glu Tyr Arg Gly Ala Lys Lys Glu Trp Gly Asp Gly Ile		
485	490	495
Arg Gly Leu Ser Leu Ser Ala Ala Arg Tyr Ala Leu Leu Arg Leu Glu		
500	505	510
Glu Gly Pro Pro His Thr Lys Asn Trp Arg Pro Gln Leu Leu Val Leu		
515	520	525
Val Arg Val Asp Gln Asp Gln Asn Val Val His Pro Gln Leu Leu Ser		
530	535	540
Leu Thr Ser Gln Leu Lys Ala Gly Lys Gly Leu Thr Ile Val Gly Ser		
545	550	555
Val Leu Glu Gly Thr Phe Leu Glu Asn His Pro Gln Ala Gln Arg Ala		
565	570	575
Glu Glu Ser Ile Arg Arg Leu Met Glu Ala Glu Lys Val Lys Gly Phe		
580	585	590
Cys Gln Val Val Ile Ser Ser Asn Leu Arg Asp Gly Val Ser His Leu		
595	600	605
Ile Gln Ser Gly Gly Leu Gly Leu Gln His Asn Thr Val Leu Val		
610	615	620
Gly Trp Pro Arg Asn Trp Arg Gln Lys Glu Asp His Gln Thr Trp Arg		

625	630	635	640
Asn Phe Ile Glu Leu Val Arg Glu Thr Thr Ala Gly His Leu Ala Leu			
645	650	655	655
Leu Val Thr Lys Asn Val Ser Met Phe Pro Gly Asn Pro Glu Arg Phe			
660	665	670	670
Ser Glu Gly Ser Ile Asp Arg Trp Gly Ile Gly His Asp Gly Gly Met			
675	680	685	685
Leu Met Leu Val Pro Phe Leu Leu Arg His His Lys Val Trp Arg Lys			
690	695	700	700
Cys Lys Met Arg Ile Phe Thr Val Ala Gln Met Val Asp Met His Ala			
705	710	715	720
Met			
721			

<210> 952  
<211> 42  
<212>Amino acid  
<213> Homo sapiens

<400> 952			
Phe Tyr Leu Arg Leu Leu Ser Phe Phe Cys Phe Gln Glu His Glu Lys			
1	5	10	15
Arg Cys Trp Ser Val Asp Phe Asn Leu Met Asp Pro Lys Leu Leu Ala			
20	25	30	
Ser Gly Ser Asp Asp Ala Lys Gly Thr Val			
35	40	42	

<210> 953  
<211> 80  
<212>Amino acid  
<213> Homo sapiens

<400> 953			
Arg Asn Ser Lys Ala Met His Arg Ser Ser Cys Asp Gly Pro Leu Leu			
1	5	10	15
Ser Leu Pro Ser Val Gly Arg Ser Ala Thr His Ala Leu Val Gln Ala			
20	25	30	
Gln Leu Ile Cys Ser Gly Ala Arg Arg Gly Met His Ala Phe Ile Val			
35	40	45	
Pro Ile Arg Ser Leu Gln Asp His Thr Pro Leu Pro Gly Lys Pro Ile			
50	55	60	
Met Leu Pro Gln Gly Thr Leu Pro Gly Gly Glu Pro Arg Trp Pro Pro			
65	70	75	80

<210> 954  
<211> 202  
<212>Amino acid  
<213> Homo sapiens

&lt;400&gt; 954

Cys Gly Thr Leu Ile Leu Gln Ala Arg Ala Tyr Val Gly Pro His Val  
 1 5 10 15  
 Leu Ala Val Val Thr Arg Thr Gly Phe Cys Thr Ala Lys Gly Gly Leu  
 20 25 30  
 Val Ser Ser Ile Leu His Pro Arg Pro Ile Asn Phe Lys Phe Tyr Lys  
 35 40 45  
 His Ser Met Lys Phe Val Ala Ala Leu Ser Val Leu Ala Leu Leu Gly  
 50 55 60  
 Thr Ile Tyr Ser Ile Phe Ile Leu Tyr Arg Asn Arg Val Pro Leu Asn  
 65 70 75 80  
 Glu Ile Val Ile Arg Ala Leu Asp Leu Val Thr Val Val Val Pro Pro  
 85 90 95  
 Ala Leu Pro Ala Ala Met Thr Val Cys Thr Leu Tyr Ala Gln Ser Arg  
 100 105 110  
 Leu Arg Arg Gln Gly Ile Phe Cys Ile His Pro Leu Arg Ile Asn Leu  
 115 120 125  
 Gly Gly Lys Leu Gln Leu Val Cys Phe Asp Lys Thr Gly Thr Leu Thr  
 130 135 140  
 Glu Asp Gly Leu Asp Val Met Gly Val Val Pro Leu Lys Gly Gln Ala  
 145 150 155 160  
 Phe Leu Pro Leu Val Pro Glu Pro Arg Arg Leu Pro Val Gly Pro Leu  
 165 170 175  
 Leu Arg Ala Leu Ala Thr Cys His Ala Leu Ser Arg Leu Gln Asp Thr  
 180 185 190  
 Pro Val Gly Asp Pro Met Asp Leu Lys Met  
 195 200 202

&lt;210&gt; 955

&lt;211&gt; 188

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 955

Gln Ile Glu Tyr Phe Arg Ser Leu Leu Asp Glu His His Ile Ser Tyr  
 1 5 10 15  
 Val Ile Asp Glu Asp Val Lys Ser Gly Arg Tyr Met Glu Leu Glu Gln  
 20 25 30  
 Arg Tyr Met Asp Leu Ala Glu Asn Ala Arg Phe Glu Arg Glu Gln Leu  
 35 40 45  
 Leu Gly Val Gln Gln His Leu Ser Asn Thr Leu Lys Met Ala Glu Gln  
 50 55 60  
 Asp Asn Lys Glu Ala Gln Glu Met Ile Gly Ala Leu Lys Glu Arg Ser  
 65 70 75 80  
 His His Met Glu Arg Ile Ile Glu Ser Glu Gln Lys Gly Lys Ala Ala  
 85 90 95  
 Leu Ala Ala Thr Leu Glu Glu Tyr Lys Ala Thr Val Ala Ser Asp Gln  
 100 105 110  
 Ile Glu Met Asn Arg Leu Lys Ala Gln Leu Glu Asn Glu Lys Gln Lys  
 115 120 125  
 Val Ala Glu Leu Tyr Ser Ile His Asn Ser Gly Asp Lys Ser Asp Ile  
 130 135 140  
 Gln Asp Leu Leu Glu Ser Val Arg Leu Asp Lys Glu Lys Ala Glu Thr  
 145 150 155 160  
 Leu Ala Ser Ser Leu Gln Glu Asp Leu Ala His Thr Arg Asn Asp Ala  
 165 170 175  
 Asn Arg Leu Glu Asp Ala Ile Ala Lys Gly Arg Gly

180

185

188

<210> 956  
<211> 132  
<212>Amino acid  
<213> Homo sapiens

<400> 956  
Ala Arg Tyr Arg Phe Thr Leu Ser Ala Arg Thr Gln Val Gly Ser Gly  
1 5 10 15  
Glu Ala Val Thr Glu Glu Ser Pro Ala Pro Pro Asn Glu Ala Thr Pro  
20 25 30  
Thr Ala Ala Pro Pro Thr Leu Pro Pro Thr Thr Val Gly Ala Thr Gly  
35 40 45  
Ala Val Ser Ser Thr Asp Ala Thr Ala Ile Ala Ala Thr Thr Glu Ala  
50 55 60  
Thr Thr Val Pro Ile Ile Pro Thr Val Ala Pro Thr Thr Met Ala Thr  
65 70 75 80  
Thr Thr Thr Val Ala Thr Thr Thr Thr Ala Ala Ala Thr Thr  
85 90 95  
Thr Thr Glu Ser Pro Pro Thr Thr Thr Ser Gly Thr Lys Ile His Glu  
100 105 110  
Ser Ala Pro Asp Glu Gln Ser Ile Trp Asn Val Thr Val Leu Pro Asn  
115 120 125  
Ser Lys Trp Ala  
130 132

<210> 957  
<211> 220  
<212>Amino acid  
<213> Homo sapiens

<400> 957  
Leu Lys Ser Thr Gln Asp Glu Ile Asn Gln Ala Arg Ser Lys Leu Ser  
1 5 10 15  
Gln Leu His Glu Ser Arg Gln Glu Ala His Arg Ser Leu Glu Gln Tyr  
20 25 30  
Asp Gln Val Leu Asp Gly Ala His Gly Ala Ser Leu Thr Asp Leu Ala  
35 40 45  
Asn Leu Ser Glu Gly Val Ser Leu Ala Glu Arg Gly Ser Phe Gly Ala  
50 55 60  
Met Asp Asp Pro Phe Lys Asn Lys Ala Leu Leu Phe Ser Asn Asn Thr  
65 70 75 80  
Gln Glu Leu His Pro Asp Pro Phe Gln Thr Glu Asp Pro Phe Lys Ser  
85 90 95  
Asp Pro Phe Lys Gly Ala Asp Pro Phe Lys Gly Asp Pro Phe Gln Asn  
100 105 110  
Asp Pro Phe Ala Glu Gln Gln Thr Thr Ser Thr Asp Pro Phe Gly Gly  
115 120 125  
Asp Pro Phe Lys Glu Ser Asp Pro Phe Arg Gly Ser Ala Thr Asp Asp  
130 135 140  
Phe Lys Lys Gln Thr Lys Asn Asp Pro Phe Thr Ser Asp Pro Phe  
145 150 155 160  
Thr Lys Asn Pro Ser Leu Pro Ser Lys Leu Asp Pro Phe Glu Ser Ser

Asp Pro Phe Ser Ser Ser Val Ser Ser Lys Gly Ser Asp Pro Phe	165	170	175
180	185	190	
Gly Thr Leu Asp Pro Phe Gly Ser Gly Ser Phe Asn Ser Ala Glu Gly	195	200	205
Phe Ala Asp Phe Ser Thr Ile Glu Gly Arg Arg Gly	210	215	220

<210> 958  
<211> 250  
<212>Amino acid  
<213> Homo sapiens

Arg Thr Arg Gly Gly Ser Gly Ser Asn Ser Gln Pro Ser Leu Arg Glu	<400>	958		
1	5	10	15	
Gly His Asp Lys Pro Val Phe Asn Gly Ala Gly Lys Pro His Ser Ser	20	25	30	
Thr Ser Ser Pro Ser Val Pro Lys Thr Ser Ala Ser Arg Thr Gln Lys	35	40	45	
Ser Ala Val Glu His Lys Ala Lys Lys Ser Leu Ser His Pro Ser His	50	55	60	
Ser Arg Pro Gly Pro Met Val Thr Pro His Asn Lys Ala Lys Ser Pro	65	70	75	80
Gly Val Arg Gln Pro Gly Ser Ser Ser Ser Ala Pro Gly Gln Pro	85	90	95	
Ser Thr Gly Val Ala Arg Pro Thr Val Ser Ser Gly Pro Val Pro Arg	100	105	110	
Arg Gln Asn Gly Ser Ser Ser Ser Gly Pro Glu Arg Ser Ile Ser Gly	115	120	125	
Ser Lys Lys Pro Thr Asn Asp Ser Asn Pro Ser Arg Arg Thr Val Ser	130	135	140	
Gly Thr Cys Gly Pro Gly Gln Pro Ala Ser Ser Ser Gly Gly Pro Gly	145	150	155	160
Arg Pro Ile Ser Gly Ser Val Ser Ser Ala Arg Pro Leu Gly Ser Ser	165	170	175	
Arg Gly Pro Gly Arg Pro Val Ser Ser Pro His Glu Leu Arg Arg Pro	180	185	190	
Val Ser Gly Leu Gly Pro Pro Gly Arg Ser Val Ser Gly Pro Gly Arg	195	200	205	
Ser Ile Ser Gly Ser Ile Pro Ala Gly Arg Thr Val Ser Asn Ser Val	210	215	220	
Pro Gly Arg Pro Val Ser Ser Leu Gly Pro Gly Gln Thr Val Ser Ser	225	230	235	240
Ser Gly Pro Thr Ile Lys Pro Lys Cys Thr	245	250		

<210> 959  
<211> 48  
<212>Amino acid  
<213> Homo sapiens

<400> 959  
Arg Gly Lys Gly Ile Thr Pro Arg Tyr His Leu Cys Ile Ser Asp Pro

1	5	10	15
His Asn Leu Lys Ile Cys Cys Arg Val Asn Gly Glu Val Val Gln Ser			
20	25	30	
Ser Asn Thr Asn Gln Met Val Phe Lys Thr Glu Asp Leu Ile Ala Trp			
35	40	45	48

<210> 960  
<211> 63  
<212>Amino acid  
<213> Homo sapiens

<400> 960			
Val Val Ala Val Val Thr Arg Trp Leu Cys Glu Asn Gly Val Ser Tyr Leu			
1	5	10	15
Arg Lys Cys Val Cys Ser Ala Cys Arg His Gly Thr Arg Cys Ala Gly			
20	25	30	
Glu Val Ala Ala Ala Ala Asn Asn Ser His Cys Thr Val Gly Ile Ala			
35	40	45	
Phe Asn Ala Lys Ile Gly Gly Met Gly Asn Gln Leu Thr Trp Met			
50	55	60	63

<210> 961  
<211> 59  
<212>Amino acid  
<213> Homo sapiens

<400> 961			
Gly Ala Pro Pro Pro Phe Val Pro Thr Leu Lys Ser Asp Asp Asp Thr			
1	5	10	15
Ser Asn Phe Asp Glu Pro Lys Lys Asn Ser Trp Val Ser Ser Ser Pro			
20	25	30	
Cys Gln Leu Ser Pro Ser Gly Phe Ser Gly Glu Glu Leu Pro Phe Val			
35	40	45	
Gly Phe Ser Tyr Ser Lys Ala Leu Gly Ile Leu			
50	55	59	

<210> 962  
<211> 140  
<212>Amino acid  
<213> Homo sapiens

<400> 962			
Phe Val Glu Arg Leu Ala His Leu His Ala Ala Cys Ala Pro Arg Arg			
1	5	10	15
Lys Val Ala Leu Leu Leu Glu Val Cys Arg Asp Val Tyr Ala Gly Leu			
20	25	30	
Ala Arg Gly Glu Asn Gln Asp Pro Leu Gly Ala Asp Ala Phe Leu Pro			

	35	40	45
Ala Leu Thr Glu Glu Leu Ile Trp Ser Pro Asp Ile Gly Asp Thr Gln			
50	55	60	
Leu Asp Val Glu Phe Leu Met Glu Leu Leu Asp Pro Asp Glu Leu Arg			
65	70	75	80
Gly Glu Ala Gly Tyr Tyr Leu Thr Thr Trp Phe Gly Ala Leu His His			
85	90	95	
Ile Ala His Tyr Gln Pro Glu Thr Asp Arg Ala Pro Arg Gly Leu Ser			
100	105	110	
Ser Glu Ala Arg Ala Ser Leu His Gln Trp His Arg Arg Arg Thr Leu			
115	120	125	
His Arg Lys Asp His Pro Arg Ala Gln Gln Leu Asp			
130	135	140	

<210> 963  
 <211> 153  
 <212>Amino acid  
 <213> Homo sapiens

	<400> 963		
Phe Trp Met Asp Pro Tyr Asn Pro Leu Asn Phe Lys Ala Pro Phe Gln			
1	5	10	15
Thr Ser Gly Glu Asn Glu Lys Gly Cys Arg Asp Ser Lys Thr Pro Ser			
20	25	30	
Glu Ser Ile Val Ala Ile Ser Glu Cys His Thr Leu Leu Ser Cys Lys			
35	40	45	
Val Gln Leu Leu Gly Ser Gln Glu Ser Glu Cys Pro Asp Ser Val Gln			
50	55	60	
Arg Asp Val Leu Ser Gly Gly Arg His Thr His Val Lys Arg Lys Lys			
65	70	75	80
Val Thr Phe Leu Glu Glu Val Thr Glu Tyr Tyr Ile Ser Gly Asp Glu			
85	90	95	
Asp Arg Lys Gly Pro Trp Glu Glu Phe Ala Arg Asp Gly Cys Arg Phe			
100	105	110	
Gln Lys Arg Ile Gln Glu Thr Glu Asp Ala Ile Gly Tyr Cys Leu Thr			
115	120	125	
Phe Glu His Arg Glu Arg Met Phe Asn Arg Leu Gln Gly Thr Cys Phe			
130	135	140	
Lys Gly Leu Asn Val Leu Lys Gln Cys			
145	150	153	

<210> 964  
 <211> 54  
 <212>Amino acid  
 <213> Homo sapiens

	<400> 964		
Ala Ala Ser Thr Ala Tyr Ser Phe Phe Gly Thr Val Glu Asn Met Ala			
1	5	10	15
Pro Lys Val Val Asn Arg Pro Gly His Thr Gln Ser Ala Asp Trp Gly			
20	25	30	
Ser Phe Gly Gly Leu Met Gly Arg Phe Glu Phe Gly Ile Phe Leu Lys			
35	40	45	
Gly Lys Glu Ile Val Lys			

50

54

<210> 965  
<211> 39  
<212>Amino acid  
<213> Homo sapiens

<400> 965  
Gly Phe Val Phe Leu Pro Gly Pro Met Ser Val Gly Leu Asp Phe Ser  
1 5 10 15  
Leu Pro Gly Met Glu His Val Tyr Gly Ile Pro Glu His Ala Asp Asn  
20 25 30  
Leu Arg Leu Lys Val Thr Glu  
35 39

<210> 966  
<211> 130  
<212>Amino acid  
<213> Homo sapiens

<400> 966  
Gly Ser Glu Cys Gln Gly Thr Asp Leu Asp Thr Arg Asn Cys Thr Ser  
1 5 10 15  
Asp Leu Cys Val His Thr Ala Ser Gly Pro Glu Asp Val Ala Leu Tyr  
20 25 30  
Val Gly Leu Ile Ala Val Ala Val Cys Leu Val Leu Leu Leu Val  
35 40 45  
Leu Ile Leu Val Tyr Cys Arg Lys Lys Glu Gly Leu Asp Ser Asp Val  
50 55 60  
Ala Asp Ser Ser Ile Leu Thr Ser Gly Phe Gln Pro Val Ser Ile Lys  
65 70 75 80  
Pro Ser Lys Ala Asp Asn Pro His Leu Leu Thr Ile Gln Pro Asp Leu  
85 90 95  
Ser Thr Thr Thr Tyr Gln Gly Ser Leu Cys Pro Arg Gln Asp  
100 105 110  
Gly Pro Ser Pro Lys Phe Gln Leu Thr Asn Gly His Leu Leu Ser Pro  
115 120 125  
Leu Gly  
130

<210> 967  
<211> 259  
<212>Amino acid  
<213> Homo sapiens

<400> 967  
Leu Ile Tyr Asn Glu Asp Met Ile Cys Trp Ile Glu Ser Arg Glu Ser  
1 5 10 15  
Ser Asn Gln Leu Lys Cys Ile Gln Ile Thr Lys Ala Gly Leu Thr

Asp Glu Trp Thr Ile Asn Ile Leu Gln Ser Phe His Asn Val Gln Gln	20	25	30
Met Ala Ile Asp Trp Leu Thr Arg Asn Leu Tyr Phe Val Asp His Val	35	40	45
Gly Asp Arg Ile Phe Val Cys Asn Ser Asn Gly Ser Val Cys Val Thr	50	55	60
Leu Ile Asp Leu Glu Leu His Asn Pro Lys Ala Ile Ala Val Asp Pro	65	70	75
Ile Ala Gly Lys Leu Phe Phe Thr Asp Tyr Gly Asn Val Ala Lys Val	85	90	95
Glu Arg Cys Asp Met Asp Gly Met Asn Arg Thr Arg Ile Ile Asp Ser	100	105	110
Lys Thr Glu Gln Pro Ala Ala Leu Ala Leu Asp Leu Val Asn Lys Leu	115	120	125
Val Tyr Trp Val Asp Leu Tyr Leu Asp Tyr Val Gly Val Val Asp Tyr	130	135	140
Gln Gly Lys Asn Arg His Ala Val Ile Gln Gly Arg Gln Val Arg His	145	150	155
Leu Tyr Gly Ile Thr Val Phe Glu Asp Tyr Leu Tyr Ala Thr Asn Ser	165	170	175
Asp Ser Tyr Asn Ile Val Arg Ile Ser Arg Phe Asn Gly Thr Asp Ile	180	185	190
His Ser Leu Ile Lys Ile Glu Asn Ala Trp Gly Ile Arg Ile Tyr Gln	195	200	205
Lys Arg Thr Gln Pro Thr Val Arg Ser His Ala Cys Glu Val Asp Pro	210	215	220
Tyr Gly Met Pro Gly Cys Ser His Ile Cys Leu Leu Ser Ser Ser	225	230	235
Tyr Thr Lys	245	250	255
	259		

<210> 968  
 <211> 161  
 <212>Amino acid  
 <213> Homo sapiens

Ser Ser Gly Asn Pro Gln Pro Gly Asp Ser Ser Gly Gly Gly Ala Gly	<400>	968	
1	5	10	15
Gly Gly Leu Pro Ser Pro Gly Glu Gln Glu Leu Ser Arg Arg Leu Gln	20	25	30
Arg Leu Tyr Pro Ala Val Asn Gln Gln Glu Thr Pro Leu Pro Arg Ser	35	40	45
Trp Ser Pro Lys Asp Lys Tyr Asn Tyr Ile Gly Leu Ser Gln Gly Asn	50	55	60
Leu Arg Val His Tyr Lys Gly His Gly Lys Asn His Lys Asp Ala Ala	65	70	75
Ser Val Arg Ala Thr His Pro Ile Pro Ala Ala Cys Gly Ile Tyr Tyr	85	90	95
Phe Glu Val Lys Ile Val Ser Lys Gly Arg Asp Gly Tyr Met Gly Ile	100	105	110
Gly Leu Ser Ala Gln Gly Val Asn Met Asn Arg Leu Pro Gly Trp Asp	115	120	125
Lys His Ser Tyr Gly Tyr His Gly Asp Asp Gly His Ser Phe Cys Ser	130	135	140
Ser Gly Thr Gly Gln Pro Tyr Gly Pro Thr Phe Thr Thr Gly Asp Val	145	150	155
Ile			160

161

<210> 969  
 <211> 76  
 <212>Amino acid  
 <213> Homo sapiens

<400> 969  
 Phe Phe Phe Lys Met Gly Ser Arg Ser Val Thr Gln Ala Gly Val  
 1 5 10 15  
 Gln Trp Cys Asp Val Ser Ser Leu Gln Ala Pro Pro Pro Arg Phe Thr  
 20 25 30  
 Leu Phe Cys Leu Ser Leu Pro Ser Ser Trp Asp Tyr Arg Cys Val Pro  
 35 40 45  
 Pro Cys Pro Ala Asn Phe Phe Val Phe Leu Val Glu Thr Gly Phe His  
 50 55 60  
 Arg Val Ser Gln Tyr Gly Leu Asp Leu Leu Thr Ser  
 65 70 75 76

<210> 970  
 <211> 267  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(267)  
 <223> X = any amino acid or stop code

<400> 970  
 Gln Leu Ser Leu Ala Arg Gly Lys Val Phe Leu Cys Ala Leu Ser Phe  
 1 5 10 15  
 Val Tyr Phe Ala Lys Ala Leu Ala Glu Gly Tyr Leu Lys Ser Thr Ile  
 20 25 30  
 Thr Gln Ile Glu Arg Arg Val Asp Ile Pro Ser Ser Leu Val Gly Val  
 35 40 45  
 Ile Asp Gly Ser Phe Glu Ile Gly Asn Leu Leu Val Ile Thr Phe Val  
 50 55 60  
 Ser Tyr Phe Gly Ala Lys Leu His Arg Pro Lys Ile Ile Gly Ala Gly  
 65 70 75 80  
 Cys Val Ile Met Gly Val Gly Thr Leu Leu Ile Ala Met Pro Gln Phe  
 85 90 95  
 Phe Met Glu Gln Tyr Lys Tyr Glu Arg Tyr Ser Pro Ser Ser Asn Ser  
 100 105 110  
 Thr Leu Ser Ile Ser Pro Cys Leu Leu Glu Ser Ser Gln Leu Pro  
 115 120 125  
 Val Ser Val Met Glu Lys Ser Lys Ser Lys Ile Ser Asn Glu Cys Glu  
 130 135 140  
 Val Asp Thr Ser Ser Ser Met Trp Ile Tyr Val Phe Leu Gly Asn Leu  
 145 150 155 160  
 Leu Arg Gly Ile Gly Glu Thr Pro Ile Gln Pro Leu Gly Ile Ala Tyr  
 165 170 175  
 Leu Asp Asp Phe Ala Ser Glu Asp Asn Ala Ala Phe Tyr Ile Gly Cys  
 180 185 190

Val Gln Thr Val Ala Ile Ile Gly Pro Ile Phe Gly Phe Leu Leu Gly		
195	200	205
Ser Leu Cys Ala Lys Leu Tyr Val Asp Ile Gly Phe Val Asn Leu Asp		
210	215	220
His Phe Xaa Val Ser Ala Gln Leu Gly Thr Arg Lys Gly Val Leu Val		
225	230	235
Cys Leu Val Phe Cys Leu Leu Cys Gln Ser Ile Gly Arg Arg Leu Ser		
245	250	255
Glu Glu His His Ser Asp Arg Glu Lys Gly		
260	265	267

<210> 971  
<211> 282  
<212>Amino acid  
<213> Homo sapiens

<400> 971		
Gln Pro Ala Gly Arg Val Glu Ala Phe Cys Lys Phe His Met Trp Ala		
1	5	10
Glu Gly Met Thr Ser Leu Met Lys Ala Ala Leu Asp Leu Thr Tyr Pro		
20	25	30
Ile Thr Ser Met Phe Ser Gly Ala Gly Phe Asn Ser Ser Ile Phe Ser		
35	40	45
Val Phe Lys Asp Gln Gln Ile Glu Asp Leu Trp Ile Pro Tyr Phe Ala		
50	55	60
Ile Thr Thr Asp Ile Thr Ala Ser Ala Met Arg Val His Thr Asp Gly		
65	70	75
Ser Leu Trp Arg Tyr Val Arg Ala Ser Met Ser Leu Ser Gly Tyr Met		
85	90	95
Pro Pro Leu Cys Asp Pro Lys Asp Gly His Leu Leu Met Asp Gly Gly		
100	105	110
Tyr Ile Asn Asn Leu Pro Ala Asp Val Ala Arg Ser Met Gly Ala Lys		
115	120	125
Val Val Ile Ala Ile Asp Val Gly Ser Arg Asp Glu Thr Asp Leu Thr		
130	135	140
Asn Tyr Gly Asp Ala Leu Ser Gly Trp Leu Leu Trp Lys Arg Trp		
145	150	155
Asn Pro Leu Ala Thr Lys Val Lys Val Leu Asn Met Ala Glu Ile Gln		
165	170	175
Thr Arg Leu Ala Tyr Val Cys Cys Val Arg Gln Leu Glu Val Val Lys		
180	185	190
Ser Ser Asp Tyr Cys Glu Tyr Leu Arg Pro Pro Ile Asp Ser Tyr Ser		
195	200	205
Thr Leu Asp Phe Gly Lys Phe Asn Glu Ile Cys Glu Val Gly Tyr Gln		
210	215	220
His Gly Arg Thr Val Phe Asp Ile Trp Gly Arg Ser Gly Val Leu Glu		
225	230	235
Lys Met Leu Arg Asp Gln Gln Gly Pro Ser Lys Pro Ala Ser Ala		
245	250	255
Val Leu Thr Cys Pro Asn Ala Ser Phe Thr Asp Leu Ala Glu Ile Val		
260	265	270
Ser Arg Ile Glu Pro Ala Lys Pro Ala Met		
275	280	282

<210> 972  
<211> 167  
<212>Amino acid  
<213> Homo sapiens

<400> 972

Leu	Trp	Val	Ile	Met	Phe	Val	Ser	Tyr	Leu	Ile	Leu	Thr	Leu	Leu	His
1					5				10				15		
Val	Gln	Thr	Ala	Val	Leu	Ala	Arg	Pro	Gly	Gly	Glu	Ser	Ile	Gly	Cys
					20				25				30		
Asp	Asp	Tyr	Leu	Gly	Ser	Asp	Lys	Val	Val	Asp	Lys	Cys	Gly	Val	Cys
					35				40			45			
Gly	Gly	Asp	Asn	Thr	Gly	Cys	Gln	Val	Val	Ser	Gly	Val	Phe	Lys	His
					50				55			60			
Ala	Leu	Thr	Ser	Leu	Gly	Tyr	His	Arg	Val	Val	Glu	Ile	Pro	Glu	Gly
					65				70			75			80
Ala	Thr	Lys	Ile	Asn	Ile	Thr	Glu	Met	Tyr	Lys	Ser	Asn	Asn	Tyr	Leu
					85				90			95			
Ala	Leu	Arg	Ser	Arg	Gly	Arg	Ser	Ile	Ile	Asn	Gly	Asn	Trp	Ala	
					100				105			110			
Ile	Asp	Arg	Pro	Gly	Lys	Tyr	Glu	Gly	Gly	Gly	Thr	Met	Phe	Thr	Tyr
					115				120			125			
Lys	Arg	Pro	Asn	Glu	Ile	Ser	Ser	Thr	Ala	Gly	Glu	Ser	Phe	Leu	Ala
					130				135			140			
Glu	Gly	Pro	Thr	Asn	Glu	Ile	Leu	Asp	Val	Tyr	Val	Ser	Leu	Asp	Val
					145				150			155			160
Ser	Gly	Leu	Phe	Phe	Gly	Phe									
					165				167						

<210> 973  
<211> 140  
<212>Amino acid  
<213> Homo sapiens

<400> 973

Ile	Ser	Gly	Gly	Thr	Arg	Ser	Ala	Gly	Pro	Leu	Arg	Arg	Asn	Tyr	Asn
1					5				10			15			
Phe	Ile	Ala	Ala	Val	Val	Glu	Lys	Val	Ala	Pro	Ser	Val	Val	His	Val
					20				25			30			
Gln	Leu	Trp	Gly	Arg	Asn	Gln	Gln	Trp	Ile	Glu	Val	Val	Leu	Gln	Asn
					35				40			45			
Gly	Ala	Arg	Tyr	Glu	Ala	Val	Val	Lys	Asp	Ile	Asp	Leu	Lys	Leu	Asp
					50				55			60			
Leu	Ala	Val	Ile	Lys	Ile	Glu	Ser	Asn	Ala	Glu	Leu	Pro	Val	Leu	Met
					65				70			75			80
Leu	Gly	Arg	Ser	Ser	Asp	Leu	Arg	Ala	Gly	Glu	Phe	Val	Val	Ala	Leu
					85				90			95			
Gly	Ser	Pro	Phe	Ser	Leu	Gln	Asn	Thr	Ala	Gly	Ile	Val	Ser		
					100				105			110			
Thr	Lys	Gln	Arg	Gly	Gly	Lys	Glu	Leu	Gly	Met	Lys	Asp	Ser	Asp	Met
					115				120			125			
Asp	Tyr	Val	Gln	Ile	Asp	Ala	Thr	Ile	Asn	Tyr	Gly				
					130				135			140			

<210> 974  
<211> 286  
<212>Amino acid  
<213> Homo sapiens

<400> 974  
 Pro Arg Val Arg Glu Leu Lys Glu Ile Leu Asp Arg Lys Gly His Phe  
 1               5               10               15  
 Ser Glu Asn Glu Thr Arg Trp Ile Ile Gln Ser Leu Ala Ser Ala Ile  
 20               25               30  
 Ala Tyr Leu His Asn Asn Asp Ile Val His Arg Asp Leu Lys Leu Glu  
 35               40               45  
 Asn Ile Met Val Lys Ser Ser Leu Ile Asp Asp Asn Asn Glu Ile Asn  
 50               55               60  
 Leu Asn Ile Lys Val Thr Asp Phe Gly Leu Ala Val Lys Lys Gln Ser  
 65               70               75               80  
 Arg Ser Glu Ala Met Leu Gln Ala Thr Cys Gly Thr Pro Ile Tyr Met  
 85               90               95  
 Ala Pro Glu Val Ile Ser Ala His Asp Tyr Ser Gln Gln Cys Asp Ile  
 100              105              110  
 Trp Ser Ile Gly Val Val Met Tyr Met Leu Leu Arg Gly Glu Pro Pro  
 115              120              125  
 Phe Leu Ala Ser Ser Glu Glu Lys Leu Phe Glu Leu Ile Arg Lys Gly  
 130              135              140  
 Glu Leu His Phe Glu Asn Ala Val Trp Asn Ser Ile Ser Asp Cys Ala  
 145              150              155              160  
 Lys Ser Val Leu Lys Glu Leu Met Lys Val Asp Pro Ala His Arg Ile  
 165              170              175  
 Thr Ala Lys Glu Leu Leu Asp Asn Gln Trp Leu Thr Gly Asn Lys Leu  
 180              185              190  
 Ser Ser Val Arg Pro Thr Asn Val Leu Glu Met Met Lys Glu Trp Lys  
 195              200              205  
 Asn Asn Pro Glu Ser Val Glu Asn Thr Thr Glu Glu Lys Asn Lys  
 210              215              220  
 Pro Ser Thr Glu Glu Lys Leu Lys Ser Tyr Gln Pro Trp Gly Asn Val  
 225              230              235              240  
 Pro Glu Thr Asn Tyr Thr Ser Asp Glu Glu Glu Lys Gln Val Gly  
 245              250              255  
 Arg Ile Ile Ala Ala Phe Leu Pro Ser Val Lys Tyr Pro His His Thr  
 260              265              270  
 Trp Asn Ile Phe Leu Gln Ile Cys Leu Phe Val Val Ser Leu  
 275              280              285 286

<210> 975  
<211> 155  
<212> Amino acid  
<213> Homo sapiens

<400> 975  
 Leu Ser Ile Ser Val Ser Asp Val Ser Leu Ser Asp Glu Gly Gln Tyr  
 1               5               10               15  
 Thr Cys Ser Leu Phe Thr Met Pro Val Lys Thr Ser Lys Ala Tyr Leu  
 20               25               30  
 Thr Val Leu Gly Val Pro Glu Lys Pro Gln Ile Ser Gly Phe Ser Ser  
 35               40               45  
 Pro Val Met Glu Gly Asp Leu Met Gln Leu Thr Cys Lys Thr Ser Gly  
 50               55               60  
 Ser Lys Pro Ala Ala Asp Ile Arg Trp Phe Lys Asn Asp Lys Glu Ile  
 65               70               75               80

Lys Asp Val Lys Tyr Leu Lys Glu Glu Asp Ala Asn Arg Lys Thr Phe  
 85 90 95  
 Thr Val Ser Ser Thr Leu Asp Phe Arg Val Asp Arg Ser Asp Asp Gly  
 100 105 110  
 Val Ala Val Ile Cys Arg Val Asp His Glu Ser Leu Asn Ala Thr Pro  
 115 120 125  
 Gln Val Ala Met Gln Val Leu Glu Met His Tyr Thr Pro Ser Val Lys  
 130 135 140  
 Ile Ile Pro Ser Thr Pro Phe Pro Gln Glu Gly  
 145 150 155

<210> 976  
<211> 137  
<212>Amino acid  
<213> Homo sapiens

<400> 976  
Tyr Asn Gln Lys Val Phe Ser Leu Gly Ile Ile Phe Phe Glu  
 1 5 10 15  
Met Ser Tyr His Pro Met Val Thr Ala Ser Glu Arg Ile Phe Val Leu  
 20 25 30  
Asn Gln Leu Arg Asp Pro Thr Ser Pro Lys Phe Pro Glu Asp Phe Asp  
 35 40 45  
Asp Gly Glu His Ala Lys Gln Lys Ser Val Ile Ser Trp Leu Leu Asn  
 50 55 60  
His Asp Pro Ala Lys Arg Pro Thr Ala Thr Glu Leu Leu Lys Ser Glu  
 65 70 75 80  
Leu Leu Pro Pro Gln Met Glu Glu Ser Glu Leu His Glu Val Leu  
 85 90 95  
His His Thr Leu Thr Asn Val Asp Gly Lys Ala Tyr Arg Thr Ile Asp  
 100 105 110  
Gly Pro Arg Ser Phe Arg Gln Arg Ile Ser Pro Ala Ile Ala Tyr Thr  
 115 120 125  
Tyr Asp Ser Asp Ile Leu Lys Gly Asn  
 130 135 137

<210> 977  
<211> 246  
<212>Amino acid  
<213> Homo sapiens

<400> 977  
Asp Gln Asp Tyr Lys Tyr Asp Ser Thr Ser Asp Asp Ser Asn Phe Leu  
 1 5 10 15  
Asn Pro Pro Arg Gly Trp Asp His Thr Ala Pro Gly His Arg Thr Phe  
 20 25 30  
Glu Thr Lys Asp Gln Pro Glu Tyr Asp Ser Thr Asp Gly Glu Gly Asp  
 35 40 45  
Trp Ser Leu Trp Ser Val Cys Ser Val Thr Cys Gly Asn Gly Asn Gln  
 50 55 60  
Lys Arg Thr Arg Ser Cys Gly Tyr Ala Cys Thr Ala Thr Glu Ser Arg  
 65 70 75 80  
Thr Cys Asp Arg Pro Asn Cys Pro Gly Ile Glu Asp Thr Phe Arg Thr  
 85 90 95

Ala Ala Thr Glu Val Ser Leu Leu Ala Gly Ser Glu Glu Phe Asn Ala  
 100 105 110  
 Thr Lys Leu Phe Glu Val Asp Thr Asp Ser Cys Glu Arg Trp Met Ser  
 115 120 125  
 Cys Lys Ser Glu Phe Leu Lys Lys Tyr Met His Lys Val Met Asn Asp  
 130 135 140  
 Leu Pro Ser Cys Pro Cys Ser Tyr Pro Thr Glu Val Ala Tyr Ser Thr  
 145 150 155 160  
 Ala Asp Ile Phe Asp Arg Ile Lys Arg Lys Asp Phe Arg Trp Lys Asp  
 165 170 175  
 Ala Ser Gly Pro Lys Glu Lys Leu Glu Ile Tyr Lys Pro Thr Ala Arg  
 180 185 190  
 Tyr Cys Ile Arg Ser Met Leu Ser Leu Glu Ser Thr Thr Leu Ala Ala  
 195 200 205  
 Gln His Cys Cys Tyr Gly Asp Asn Met Gln Leu Ile Thr Arg Gly Lys  
 210 215 220  
 Gly Ala Gly Thr Pro Asn Leu Ile Ser Thr Glu Phe Ser Ala Glu Leu  
 225 230 235 240  
 His Tyr Lys Val Asp Val  
 245 246

<210> 978  
 <211> 203  
 <212>Amino acid  
 <213> Homo sapiens

<400> 978  
 Glu Ser Glu Glu Asn Gly Glu Ser Ala Met Asp Ser Thr Val Ala Lys  
 1 5 10 15  
 Glu Gly Thr Asn Val Pro Leu Val Ala Ala Gly Pro Cys Asp Asp Glu  
 20 25 30  
 Gly Ile Val Thr Ser Thr Gly Ala Lys Glu Glu Asp Glu Glu Gly Glu  
 35 40 45  
 Asp Val Val Thr Ser Thr Gly Arg Gly Asn Glu Ile Gly His Ala Ser  
 50 55 60  
 Thr Cys Thr Gly Leu Gly Glu Glu Ser Glu Gly Val Leu Ile Cys Glu  
 65 70 75 80  
 Ser Ala Glu Gly Asp Ser Gln Ile Gly Thr Val Val Glu His Val Glu  
 85 90 95  
 Ala Glu Ala Gly Ala Ile Met Asn Ala Asn Glu Asn Asn Val Asp  
 100 105 110  
 Ser Met Ser Gly Thr Glu Lys Gly Ser Lys Asp Thr Asp Ile Cys Ser  
 115 120 125  
 Ser Ala Lys Gly Ile Val Glu Ser Ser Val Thr Ser Ala Val Ser Gly  
 130 135 140  
 Lys Asp Glu Val Thr Pro Val Pro Gly Gly Cys Glu Gly Pro Met Thr  
 145 150 155 160  
 Ser Ala Ala Ser Asp Gln Ser Asp Ser Gln Leu Glu Lys Val Glu Asp  
 165 170 175  
 Thr Thr Ile Ser Thr Gly Leu Val Gly Gly Ser Tyr Asp Val Leu Val  
 180 185 190  
 Ser Gly Glu Val Pro Glu Cys Glu Val Ala His  
 195 200 203

<210> 979  
 <211> 94  
 <212>Amino acid  
 <213> Homo sapiens

<400> 979  
 Val Cys Ile Ile Cys Leu Ile Phe Ser Tyr Tyr Ser Phe Asp Ser Ala  
 1 5 10 15  
 Leu Gln Ser Ala Lys Ser Ser Leu Gly Gly Asn Asp Glu Leu Ser Ala  
 20 25 30  
 Thr Phe Leu Glu Met Lys Gly His Phe Tyr Met Tyr Ala Gly Ser Leu  
 35 40 45  
 Leu Leu Lys Met Gly Glu His Gly Asn Asn Val Gln Trp Arg Ala Leu  
 50 55 60  
 Ser Glu Leu Ala Ala Leu Cys Tyr Leu Ile Ala Phe Gln Val Ser Leu  
 65 70 75 80  
 Pro Leu Gly Ala Ile Asp Ile Ser Arg Ser Leu Asp Val Phe  
 85 90 94

<210> 980  
<211> 226  
<212>Amino acid  
<213> Homo sapiens

<400> 980  
 Gln His Pro Ser Gln Glu Lys Pro Gln Val Leu Thr Pro Ser Pro Arg  
 1 5 10 15  
 Lys Gln Lys Leu Asn Arg Lys Tyr Arg Ser His His Asp Gln Met Ile  
 20 25 30  
 Cys Lys Cys Leu Ser Leu Ser Ile Ser Tyr Ser Ala Thr Ile Gly Glu  
 35 40 45  
 Leu Thr Thr Ile Ile Gly Thr Ser Thr Ser Leu Ile Phe Leu Glu His  
 50 55 60  
 Phe Asn Asn Gln Tyr Pro Ala Ser Glu Val Val Asn Phe Gly Thr Trp  
 65 70 75 80  
 Phe Leu Phe Ser Phe Pro Ile Ser Leu Ile Met Leu Val Val Ser Trp  
 85 90 95  
 Phe Trp Met His Trp Leu Phe Leu Gly Cys Asn Phe Lys Glu Thr Cys  
 100 105 110  
 Ser Leu Ser Lys Lys Lys Thr Lys Arg Glu Gln Leu Ser Glu Lys  
 115 120 125  
 Arg Ile Gln Glu Glu Tyr Glu Lys Leu Gly Asp Ile Ser Tyr Pro Glu  
 130 135 140  
 Met Val Thr Gly Phe Phe Ile Leu Met Thr Val Leu Trp Phe Thr  
 145 150 155 160  
 Arg Glu Pro Gly Phe Val Pro Gly Trp Asp Ser Phe Phe Glu Lys Lys  
 165 170 175  
 Gly Tyr Arg Thr Asp Ala Thr Val Ser Val Phe Leu Gly Phe Leu Leu  
 180 185 190  
 Phe Leu Ile Pro Ala Lys Lys Pro Cys Phe Gly Lys Lys Asn Asp Gly  
 195 200 205  
 Glu Asn Gln Glu His Ser Leu Gly Thr Glu Pro Ile Ile Thr Trp Lys  
 210 215 220  
 Asp Phe  
 225 226

<210> 981  
<211> 163

<212>Amino acid  
<213> Homo sapiens

<400> 981  
 Leu Glu Arg Glu Gly Asp Lys Gly Thr Pro Val Leu Arg Gly Phe Ser  
     1               5                 10                 15  
 Ser Val Ser Gly Ser Trp Ser Arg Arg Met Pro Pro Phe Leu Leu Leu  
     20               25                 30  
 Thr Cys Leu Phe Ile Thr Gly Thr Ser Val Ser Pro Val Ala Leu Asp  
     35               40                 45  
 Pro Cys Ser Ala Tyr Ile Ser Leu Asn Glu Pro Trp Arg Asn Thr Asp  
     50               55                 60  
 His Gln Leu Asp Glu Ser Gln Gly Pro Pro Leu Cys Asp Asn His Val  
     65               70                 75                 80  
 Asn Gly Glu Trp Tyr His Phe Thr Gly Met Ala Gly Asp Ala Met Pro  
     85               90                 95  
 Thr Phe Cys Ile Pro Glu Asn His Cys Gly Thr His Ala Pro Val Trp  
     100              105                 110  
 Leu Asn Gly Ser His Pro Leu Glu Gly Asp Gly Ile Val Gln Arg Gln  
     115              120                 125  
 Ala Cys Ala Ser Phe Asn Gly Asn Cys Cys Leu Trp Asn Thr Thr Val  
     130              135                 140  
 Glu Val Lys Ala Cys Pro Gly Gly Tyr Tyr Val Tyr Arg Leu Thr Lys  
     145              150                 155                 160  
 Pro Ser Val  
     163

<210> 982  
<211> 327  
<212>Amino acid  
<213> Homo sapiens

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<400> 982
Cys Gly Arg Thr Met Ser Asp Ile Arg His Ser Leu Leu Arg Arg Asp
      1           5          10          15
Ala Leu Ser Ala Ala Lys Glu Val Leu Tyr His Leu Asp Ile Tyr Phe
      20          25          30
Ser Ser Gln Leu Gln Ser Ala Pro Leu Pro Ile Val Asp Lys Gly Pro
      35          40          45
Val Glu Leu Leu Glu Glu Phe Val Phe Gln Val Pro Lys Glu Arg Ser
      50          55          60
Ala Gln Pro Lys Arg Leu Asn Ser Leu Gln Glu Leu Gln Leu Leu Glu
      65          70          75          80
Ile Met Cys Asn Tyr Phe Gln Glu Gln Thr Lys Asp Ser Val Arg Gln
      85          90          95
Ile Ile Phe Ser Ser Leu Phe Ser Pro Gln Gly Asn Lys Ala Asp Asp
      100         105         110
Ser Arg Met Ser Leu Leu Gly Lys Leu Val Ser Met Ala Val Ala Val
      115         120         125
Cys Arg Ile Pro Val Leu Glu Cys Ala Ala Ser Trp Leu Gln Arg Thr
      130         135         140
Pro Val Val Tyr Cys Val Arg Leu Ala Lys Ala Leu Val Asp Asp Tyr
      145         150         155         160
Cys Cys Leu Val Pro Gly Ser Ile Gln Thr Leu Lys Gln Ile Phe Ser
      165         170         175

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Ala Ser Pro Arg Phe Cys Cys Gln Phe Ile Thr Ser Val Thr Ala Leu		
180	185	190
Tyr Asp Leu Ser Ser Asp Asp Leu Ile Pro Pro Met Asp Leu Leu Glu		
195	200	205
Met Ile Val Thr Trp Ile Phe Glu Asp Pro Arg Leu Ile Leu Ile Thr		
210	215	220
Phe Leu Asn Thr Pro Ile Ala Ala Asn Leu Pro Ile Gly Phe Leu Glu		
225	230	235
Leu Thr Pro Leu Val Gly Leu Ile Arg Trp Cys Val Lys Ala Pro Leu		
245	250	255
Ala Tyr Lys Arg Lys Lys Pro Pro Leu Ser Asn Gly His Val Ser		
260	265	270
Asn Lys Val Thr Lys Asp Pro Gly Val Gly Met Asp Arg Asp Ser His		
275	280	285
Leu Leu Tyr Ser Lys Leu His Leu Ser Val Leu Gln Val Leu Met Thr		
290	295	300
Leu Gln Leu His Leu Thr Glu Lys Asn Leu Tyr Gly Pro Pro Gly Ala		
305	310	315
Asp Pro Leu Arg Pro His Gly		
325	327	

<210> 983  
<211> 110  
<212>Amino acid  
<213> Homo sapiens

<400> 983		
Ser Ala Cys Ser Thr Gly Pro Glu Leu Pro Gly Arg Ala Thr Arg Ser		
1	5	10
Leu Thr Arg Pro Ala Asn Gln Lys Gly Cys Asp Gly Asp Arg Leu Tyr		
20	25	30
Tyr Asp Gly Cys Ala Met Ile Ala Met Asn Gly Ser Val Phe Ala Gln		
35	40	45
Gly Ser Gln Phe Ser Leu Asp Asp Val Glu Val Leu Thr Ala Thr Leu		
50	55	60
Asp Leu Glu Asp Val Arg Ser Tyr Arg Ala Glu Ile Ser Ser Arg Asn		
65	70	75
Leu Ala Val Ser Ala Pro Val Asp Thr Cys Val Gly Cys Ser Ser Lys		
85	90	95
Thr Trp Lys Val Ala Pro Phe Val Arg Ala Trp Trp Arg Pro		
100	105	110

<210> 984  
<211> 80  
<212>Amino acid  
<213> Homo sapiens

<400> 984		
Ala Pro Leu Ser Arg Leu Cys Phe Pro Gln Val Leu Val Asn Glu Gly		
1	5	10
Gly Gly Phe Asp Arg Ala Ser Gly Ser Phe Val Ala Pro Val Arg Gly		
20	25	30
Val Tyr Ser Phe Arg Phe His Val Val Lys Val Tyr Asn Arg Gln Thr		
35	40	45

Val Gln Val Thr Ser Ala Leu Ala Pro Ile Pro Gly Ser Gly Gly Trp		
50	55	60
Gly Gly Gly Arg Arg Gly Ala Gln Leu Thr Ser Gly Trp Thr Leu His		
65	70	75
		80

<210> 985  
<211> 235  
<212>Amino acid  
<213> Homo sapiens

<400> 985		
Pro His Ile Ile Gly Ala Glu Asp Asp Asp Phe Gly Thr Glu His Glu		
1	5	10
Gln Ile Asn Gly Gln Cys Ser Cys Phe Gln Ser Ile Glu Leu Leu Lys		
20	25	30
Ser Arg Pro Ala His Leu Ala Val Phe Leu Arg His Val Val Ser Gln		
35	40	45
Phe Asp Pro Ala Thr Leu Leu Cys Tyr Leu Tyr Ser Asp Leu Tyr Lys		
50	55	60
His Thr Asn Ser Lys Glu Thr Arg Arg Ile Phe Leu Glu Phe His Gln		
65	70	75
Phe Phe Leu Asp Arg Ser Ala His Leu Lys Val Ser Val Pro Asp Glu		
85	90	95
Met Ser Ala Asp Leu Glu Lys Arg Arg Pro Glu Leu Ile Pro Glu Asp		
100	105	110
Leu His Arg His Tyr Ile Gln Thr Met Gln Glu Arg Val His Pro Glu		
115	120	125
Val Gln Arg His Leu Glu Asp Phe Arg Gln Lys Arg Ser Met Gly Leu		
130	135	140
Thr Leu Ala Glu Ser Glu Leu Thr Lys Leu Asp Ala Glu Arg Asp Lys		
145	150	155
Asp Arg Leu Thr Leu Glu Lys Glu Arg Thr Cys Ala Glu Gln Ile Val		
165	170	175
Ala Lys Ile Glu Glu Val Leu Met Thr Ala Gln Ala Val Glu Glu Asp		
180	185	190
Lys Ser Ser Thr Met Gln Tyr Val Ile Leu Met Tyr Met Lys His Leu		
195	200	205
Gly Val Lys Val Lys Glu Pro Arg Asn Leu Glu His Lys Arg Gly Arg		
210	215	220
Ile Gly Phe Leu Pro Lys Ile Lys Gln Ser Met		
225	230	235

<210> 986  
<211> 140  
<212>Amino acid  
<213> Homo sapiens

<400> 986		
Ser Pro Gly Thr Gly Arg Gly Pro Gly Pro Thr Ser Phe Val Cys Leu		
1	5	10
Pro Thr Pro Gln Cys Pro Phe Ile Asp Asp Phe Ile Leu Ala Leu His		
20	25	30

Arg Lys Ile Lys Asn Glu Pro Val Val Phe Pro Glu Gly Pro Glu Ile			
35	40	45	
Ser Glu Glu Leu Lys Asp Leu Ile Leu Lys Met Leu Asp Lys Asn Pro			
50	55	60	
Glu Thr Arg Ile Gly Val Pro Asp Ile Lys Leu His Pro Trp Val Thr			
65	70	75	80
Lys Asn Gly Glu Glu Pro Leu Pro Ser Glu Glu Glu His Cys Ser Val			
85	90	95	
Val Glu Val Thr Glu Glu Val Lys Asn Ser Val Arg Leu Ile Pro			
100	105	110	
Ser Trp Thr Thr Val Ile Leu Val Lys Ser Met Leu Arg Lys Arg Ser			
115	120	125	
Phe Gly Asn Pro Phe Glu Pro Gln Ala Arg Met Ala			
130	135	140	

<210> 987  
<211> 242  
<212>Amino acid  
<213> Homo sapiens

<400> 987			
His Ala Ser Gly Ile Lys Ile Asp Lys Thr Ser Asp Gly Pro Lys Leu			
1	5	10	15
Phe Leu Thr Glu Glu Asp Gln Lys Lys Leu His Asp Phe Glu Glu Gln			
20	25	30	
Cys Val Glu Met Tyr Phe Asn Glu Lys Asp Asp Lys Phe His Ser Gly			
35	40	45	
Ser Glu Glu Arg Ile Arg Val Thr Phe Glu Arg Val Glu Gln Met Cys			
50	55	60	
Ile Gln Ile Lys Glu Val Gly Asp Arg Val Asn Tyr Ile Lys Arg Ser			
65	70	75	80
Leu Gln Ser Leu Asp Ser Gln Ile Gly His Leu Gln Asp Leu Ser Ala			
85	90	95	
Leu Thr Val Asp Thr Leu Lys Thr Leu Thr Ala Gln Lys Ala Ser Glu			
100	105	110	
Ala Ser Lys Val His Asn Glu Ile Thr Arg Glu Leu Ser Ile Ser Lys			
115	120	125	
His Leu Ala Gln Asn Leu Ile Asp Asp Gly Pro Val Arg Pro Ser Val			
130	135	140	
Trp Lys Lys His Gly Val Val Asn Thr Leu Ser Ser Ser Leu Pro Gln			
145	150	155	160
Gly Asp Leu Glu Ser Asn Asn Pro Phe His Cys Asn Ile Leu Met Lys			
165	170	175	
Asp Asp Lys Asp Pro Gln Cys Asn Ile Phe Gly Gln Asp Leu Pro Ala			
180	185	190	
Val Pro Gln Arg Lys Glu Phe Asn Phe Pro Glu Ala Gly Ser Ser Ser			
195	200	205	
Gly Ala Leu Phe Pro Ser Ala Val Ser Pro Pro Glu Leu Arg Gln Arg			
210	215	220	
Leu His Gly Val Glu Leu Leu Lys Ile Phe Asn Lys Lys Gln Lys Lys			
225	230	235	240
Arg Ala			
242			

<210> 988  
<211> 154  
<212>Amino acid  
<213> Homo sapiens

&lt;400&gt; 988

Cys	Cys	Arg	Trp	Ile	Asp	Cys	Phe	Ala	Leu	Tyr	Asp	Gln	Gln	Glu	Glu
1				5					10				15		
Leu	Val	Arg	His	Ile	Glu	Lys	Val	His	Ile	Asp	Gln	Arg	Lys	Gly	Glu
				20					25				30		
Asp	Phe	Thr	Cys	Phe	Trp	Ala	Gly	Cys	Pro	Arg	Arg	Tyr	Lys	Pro	Phe
				35					40				45		
Asn	Ala	Arg	Tyr	Lys	Leu	Leu	Ile	His	Met	Arg	Val	His	Ser	Gly	Glu
				50					55				60		
Lys	Pro	Asn	Lys	Cys	Thr	Phe	Glu	Gly	Cys	Glu	Ala	Phe	Ser	Arg	
				65					70				75		80
Leu	Glu	Asn	Leu	Lys	Ile	His	Leu	Arg	Ser	His	Thr	Gly	Glu	Lys	Pro
				85					90				95		
Tyr	Leu	Cys	Gln	His	Pro	Gly	Cys	Gln	Lys	Ala	Phe	Ser	Asn	Ser	Ser
				100					105				110		
Asp	Arg	Ala	Lys	His	Gln	Arg	Thr	His	Ile	Asp	Thr	Lys	Pro	Tyr	Ala
				115					120				125		
Cys	Gln	Ile	Pro	Gly	Cys	Thr	Lys	Arg	Tyr	Thr	Asp	Pro	Ser	Ser	Leu
				130					135				140		
Arg	Lys	His	Val	Lys	Ala	His	Ser	Ser	Lys						
				145					150				154		

&lt;210&gt; 989

<211> 65  
<212>Amino acid  
<213> Homo sapiens

&lt;400&gt; 989

Leu	Pro	Leu	Leu	Trp	Thr	Leu	Ser	Asp	Phe	Gly	Gly	Thr	Met	Asp	Gln
1				5					10				15		
Ser	Gly	Met	Glu	Ile	Pro	Val	Thr	Leu	Ile	Ile	Lys	Ala	Pro	Asn	Gln
				20					25				30		
Lys	Tyr	Ser	Asp	Gln	Thr	Ile	Ser	Cys	Phe	Leu	Asn	Trp	Thr	Val	Gly
				35					40				45		
Lys	Leu	Lys	Thr	His	Leu	Ser	Asn	Val	Tyr	Pro	Ser	Lys	Pro	Val	Ser
				50					55				60		
Val															
	65														

&lt;210&gt; 990

<211> 297  
<212>Amino acid  
<213> Homo sapiens

&lt;400&gt; 990

Ala	Gly	Thr	Arg	Met	Cys	Val	Val	Ala	Ala	Ala	Glu	Glu	Leu	Val	Cys	
1				5					10				15			
Gly	Ala	Ala	Arg	Gly	Ile	Leu	Trp	Met	Arg	Arg	Thr	Arg	Arg	Pro	Phe	Val
				20					25				30			

Leu Met Asn Lys Met Asp Asp Leu Asn Leu His Tyr Arg Phe Leu Asn  
     35                  40                  45  
 Trp Arg Arg Arg Ile Arg Glu Ile Arg Glu Val Arg Ala Phe Arg Tyr  
     50                  55                  60  
 Gln Glu Arg Phe Lys His Ile Leu Val Asp Gly Asp Thr Leu Ser Tyr  
     65                  70                  75                  80  
 His Gly Asn Ser Gly Glu Val Gly Cys Tyr Val Ala Ser Arg Pro Leu  
     85                  90                  95  
 Thr Lys Asp Ser Asn Tyr Phe Glu Val Ser Ile Val Asp Ser Gly Val  
     100                 105                 110  
 Arg Gly Thr Ile Ala Val Gly Leu Val Pro Gln Tyr Tyr Ser Leu Asp  
     115                 120                 125  
 His Gln Pro Gly Trp Leu Pro Asp Ser Val Ala Tyr His Ala Asp Asp  
     130                 135                 140  
 Gly Lys Leu Tyr Asn Gly Arg Ala Lys Gly Arg Gln Phe Gly Ser Lys  
     145                 150                 155                 160  
 Cys Asn Ser Gly Asp Arg Ile Gly Cys Gly Ile Glu Pro Val Ser Phe  
     165                 170                 175  
 Asp Val Gln Thr Ala Gln Ile Phe Phe Thr Lys Asn Gly Lys Arg Val  
     180                 185                 190  
 Gly Ser Thr Ile Met Pro Met Ser Pro Asp Gly Leu Phe Pro Ala Val  
     195                 200                 205  
 Gly Met His Ser Leu Gly Glu Val Arg Leu His Leu Asn Ala Glu  
     210                 215                 220  
 Leu Gly Arg Glu Asp Asp Ser Val Met Met Val Asp Ser Tyr Glu Asp  
     225                 230                 235                 240  
 Glu Trp Gly Arg Leu His Asp Val Arg Val Cys Gly Thr Leu Leu Glu  
     245                 250                 255  
 Tyr Leu Gly Lys Ser Ile Val Asp Val Gly Leu Ala Gln Ala  
     260                 265                 270  
 Arg His Pro Leu Ser Thr Arg Ser His Tyr Phe Glu Val Glu Ile Val  
     275                 280                 285  
 Asp Pro Gly Glu Lys Cys Tyr Ile Ala  
     290                 295                 297

<210> 991  
 <211> 207  
 <212>Amino acid  
 <213> Homo sapiens

<400> 991  
 Gln Gln Ala Glu Glu His Leu Ala Ala Tyr Ser Val Ser Asp Ser Asp  
     1                  5                  10                  15  
 Ser Gly Lys Asp Pro Ser Met Glu Cys Cys Arg Arg Ala Thr Pro Gly  
     20                 25                 30  
 Thr Leu Leu Leu Phe Leu Ala Phe Leu Leu Leu Ser Ser Arg Thr Ala  
     35                 40                 45  
 Arg Ser Glu Glu Asp Arg Asp Gly Leu Trp Asp Ala Trp Gly Pro Trp  
     50                 55                 60  
 Ser Glu Cys Ser Arg Thr Cys Gly Gly Gly Ala Ser Tyr Ser Leu Arg  
     65                 70                 75                 80  
 Arg Cys Leu Ser Ser Lys Ser Cys Glu Gly Arg Asn Ile Arg Tyr Arg  
     85                 90                 95  
 Thr Cys Ser Asn Val Asp Cys Pro Pro Glu Ala Gly Asp Phe Arg Ala  
     100                 105                 110  
 Gln Gln Cys Ser Ala His Asn Asp Val Lys His His Gly Gln Phe Tyr  
     115                 120                 125  
 Glu Trp Leu Pro Val Ser Asn Asp Pro Asp Asn Pro Cys Ser Leu Lys  
     130                 135                 140

Cys Gln Ala Lys Gly Thr Thr Leu Val Val Glu Leu Ala Pro Lys Val  
 145 150 155 160  
 Leu Asp Gly Thr Arg Cys Tyr Thr Glu Ser Leu Asp Met Cys Ile Ser  
 165 170 175  
 Gly Leu Cys Gln Val Ser Ala Asp Leu Phe Ser Phe Asn Leu Ser Arg  
 180 185 190  
 Gly Phe Cln Cys Leu Cys Val Asn Gly Leu His Ser Leu Thr Leu  
 195 200 205 207

<210> 992  
 <211> 184  
 <212>Amino acid  
 <213> Homo sapiens

<400> 992  
 Arg Leu Leu Arg Gln Glu Leu Val Val Leu Cys His Leu His His Pro  
 1 5 10 15  
 Ser Leu Ile Ser Leu Leu Ala Ala Gly Ile Arg Pro Arg Met Leu Val  
 20 25 30  
 Met Glu Leu Ala Ser Lys Gly Ser Leu Asp Arg Leu Leu Gln Gln Asp  
 35 40 45  
 Lys Ala Ser Leu Thr Arg Thr Leu Gln His Arg Ile Ala Leu His Val  
 50 55 60  
 Ala Asp Gly Leu Arg Tyr Leu His Ser Ala Met Ile Ile Tyr Arg Asp  
 65 70 75 80  
 Leu Lys Pro His Asn Val Leu Leu Phe Thr Leu Tyr Pro Asn Ala Ala  
 85 90 95  
 Ile Ile Ala Lys Ile Ala Asp Tyr Gly Ile Ala Gln Tyr Cys Cys Arg  
 100 105 110  
 Met Gly Ile Lys Thr Ser Glu Gly Thr Pro Gly Phe Arg Ala Pro Glu  
 115 120 125  
 Val Ala Arg Gly Asn Val Ile Tyr Asn Gln Gln Ala Asp Val Tyr Ser  
 130 135 140  
 Phe Gly Leu Leu Leu Tyr Asp Ile Leu Thr Thr Gly Gly Arg Ile Val  
 145 150 155 160  
 Glu Gly Leu Lys Phe Pro Asn Glu Phe Asp Glu Leu Glu Ile Gln Gly  
 165 170 175  
 Lys Leu Pro Asp Pro Val Lys Glu  
 180 184

<210> 993  
 <211> 144  
 <212>Amino acid  
 <213> Homo sapiens

<400> 993  
 Lys Ala Ser Asn Ser Thr His Glu Phe Arg Ile Gly Leu Pro Glu Gly  
 1 5 10 15  
 Trp Glu Ser Glu Lys Lys Ala Val Ile Pro Leu Gly Ile Gly Pro Pro  
 20 25 30  
 Leu Thr Leu Ile Cys Leu Gly Val Leu Gly Gly Ile Leu Ile Tyr Gly  
 35 40 45  
 Arg Lys Gly Phe Gln Thr Ala His Phe Tyr Leu Lys Asp Ser Pro Ser  
 50 55 60

Pro	Lys	Val	Ile	Ser	Thr	Pro	Pro	Pro	Ile	Phe	Pro	Ile	Ser	Lys	
65						70					75			80	
Glu	Val	Gly	Pro	Ile	Pro	Ile	Lys	His	Phe	Pro	Lys	His	Val	Ala	Asn
						85				90			95		
Leu	His	Ala	Ser	Arg	Gly	Phe	Thr	Glu	Lys	Phe	Glu	Thr	Leu	Lys	Lys
						100				105			110		
Phe	Tyr	Gln	Glu	Gly	Gln	Ser	Cys	Thr	Val	Asp	Leu	Gly	Ile	Thr	Ala
						115				120			125		
Asn	Ser	Ser	Asn	His	Pro	Asp	Asn	Arg	His	Arg	Asn	Arg	Ser	Leu	Ile
						130				135			140		144

<210> 994  
<211> 147  
<212>Amino acid  
<213> Homo sapiens

<400> 994															
Ser	Phe	Pro	Asp	Arg	Thr	Ala	Ser	Leu	Val	Leu	Leu	Ser	Val	Pro	Val
1						5				10			15		
Gly	Gln	Ala	Gly	Met	Gln	Gln	Arg	Gly	Leu	Ala	Ile	Val	Ala	Leu	Ala
						20				25			30		
Val	Cys	Ala	Ala	Leu	His	Ala	Ser	Pro	Ala	Ile	Leu	Pro	Ile	Ala	Ser
						35				40			45		
Ser	Cys	Cys	Thr	Glu	Val	Ser	His	His	Ile	Ser	Arg	Arg	Leu	Leu	Glu
						50				55			60		
Arg	Val	Asn	Met	Cys	Arg	Ile	Gln	Arg	Ala	Asp	Gly	Asp	Cys	Asp	Leu
						65				70			75		80
Ala	Ala	Ala	Val	Ile	Leu	His	Val	Lys	Arg	Arg	Arg	Ile	Cys	Val	Ser
						85				90			95		
His	Asn	His	Thr	Val	Lys	Gln	Trp	Met	Lys	Val	Gln	Ala	Ala	Lys	Lys
						100				105			110		
Asn	Gly	Lys	Gly	Asn	Val	Cys	His	Arg	Lys	Lys	His	His	Gly	Lys	Arg
						115				120			125		
Asn	Ser	Asn	Arg	Ala	His	Gln	Gly	Lys	His	Glu	Thr	Tyr	Gly	His	Lys
						130				135			140		
Thr	Pro	Tyr													
	145		147												

<210> 995  
<211> 245  
<212>Amino acid  
<213> Homo sapiens

<400> 995															
Phe	Glu	Gln	Pro	Gly	Asn	Pro	Gly	Asp	Pro	Arg	Val	Arg	Thr	Pro	Pro
1						5				10			15		
Pro	Trp	Gly	Pro	His	Phe	Ala	Leu	Ile	Pro	Ser	Ser	Pro	Lys	Glu	
						20				25			30		
Val	Pro	Ala	Thr	Pro	Ser	Ser	Arg	Arg	Asp	Pro	Ile	Ala	Pro	Thr	Ala
						35				40			45		
Thr	Leu	Leu	Ser	Lys	Lys	Thr	Pro	Ala	Thr	Leu	Ala	Pro	Lys	Glu	Ala
						50				55			60		

Leu Ile Pro Pro Ala Met Thr Val Pro Ser Pro Lys Lys Thr Pro Ala  
 65 70 75 80  
 Ile Pro Thr Pro Lys Glu Ala Pro Ala Thr Pro Ser Ser Lys Glu Ala  
 85 90 95  
 Ser Ser Pro Pro Ala Val Thr Pro Ser Thr Tyr Lys Gly Ala Pro Ser  
 100 105 110  
 Pro Lys Glu Leu Leu Ile Pro Pro Ala Val Thr Ser Pro Ser Pro Lys  
 115 120 125  
 Glu Ala Pro Thr Pro Pro Ala Val Thr Pro Pro Ser Pro Glu Lys Gly  
 130 135 140  
 Pro Ala Thr Pro Ala Pro Lys Gly Thr Pro Thr Ser Pro Pro Val Thr  
 145 150 155 160  
 Pro Ser Ser Leu Lys Asp Ser Pro Thr Ser Pro Ala Ser Val Thr Cys  
 165 170 175  
 Lys Met Gly Ala Thr Val Pro Gln Ala Ser Lys Gly Leu Pro Ala Lys  
 180 185 190  
 Lys Gly Pro Thr Ala Leu Lys Glu Val Leu Val Ala Pro Ala Pro Glu  
 195 200 205  
 Ser Thr Pro Ile Ile Thr Ala Pro Thr Arg Lys Gly Pro Gln Thr Lys  
 210 215 220  
 Lys Ser Ser Ala Thr Ser Pro Pro Ile Cys Pro Asp Pro Ser Ala Lys  
 225 230 235 240  
 Asn Gly Ser Lys Gly  
 245

<210> 996  
 <211> 25  
 <212>Amino acid  
 <213> Homo sapiens

<400> 996  
 Phe Phe Leu Lys Ile Gln Gly Leu Gly Trp Ala Arg Trp Leu Thr Pro  
 1 5 10 15  
 Val Ile Pro Val Leu Trp Glu Ala Glu  
 20 25

<210> 997  
 <211> 56  
 <212>Amino acid  
 <213> Homo sapiens

<400> 997  
 Ala Gly Phe Gly Tyr Gly Leu Pro Ile Ser Arg Leu Tyr Ala Lys Tyr  
 1 5 10 15  
 Phe Gln Gly Asp Leu Asn Leu Tyr Ser Leu Ser Gly Tyr Gly Thr Asp  
 20 25 30  
 Ala Ile Ile Tyr Leu Lys Val Ser Leu Glu Phe Asn Ser Lys Ile Leu  
 35 40 45  
 Phe Leu Lys Pro Leu Leu Leu  
 50 55 56

<210> 998  
 <211> 198

<212>Amino acid  
 <213> Homo sapiens

<400> 998  
 Trp Met Arg Ala Pro Met Leu Gln Gln Gln Ala Pro Arg Met Asp  
 1 5 10 15  
 Thr Pro Pro Pro Glu Glu Arg Leu Glu Lys Gln Asn Glu Lys Leu Asn  
 20 25 30  
 Asn Gln Glu Glu Glu Thr Glu Phe Lys Glu Leu Asp Gly Leu Arg Glu  
 35 40 45  
 Ala Leu Ala Asn Leu Arg Gly Leu Ser Glu Glu Glu Arg Ser Glu Lys  
 50 55 60  
 Ala Met Leu Arg Ser Arg Ile Glu Glu Gln Ser Gln Leu Ile Cys Ile  
 65 70 75 80  
 Leu Lys Arg Arg Ser Asp Glu Ala Leu Glu Arg Cys Gln Ile Leu Glu  
 85 90 95  
 Leu Leu Asn Ala Glu Leu Glu Lys Met Met Gln Glu Ala Glu Lys  
 100 105 110  
 Leu Lys Ala Gln Gly Glu Tyr Ser Arg Lys Leu Glu Glu Arg Phe Met  
 115 120 125  
 Thr Leu Ala Ala Asn His Glu Leu Met Leu Arg Phe Lys Asp Glu Tyr  
 130 135 140  
 Lys Ser Glu Asn Ile Lys Leu Arg Glu Glu Asn Glu Lys Leu Arg Leu  
 145 150 155 160  
 Glu Asn Asn Ser Leu Phe Ser Gln Ala Leu Lys Asp Glu Glu Ala Lys  
 165 170 175  
 Val Leu Gln Leu Thr Val Arg Cys Glu Ala Leu Thr Gly Glu Leu Glu  
 180 185 190  
 Thr Leu Lys Glu Arg Cys  
 195 198

<210> 999  
 <211> 79  
 <212>Amino acid  
 <213> Homo sapiens

<400> 999  
 Asp Pro Gly Ala Ser His Ala Ser Val Gln Val Gln Val Leu Lys Glu  
 1 5 10 15  
 Gln Leu Phe Ala Gly Arg Met Pro Ser Pro Phe Arg Ser Cys Ala Leu  
 20 25 30  
 Met Gly Met Cys Gly Ser Arg Ser Ala Asp Asn Leu Ser Cys Pro Ser  
 35 40 45  
 Pro Leu Asn Val Met Glu Pro Val Ser Phe Phe Pro Leu Lys Ser Leu  
 50 55 60  
 Gly Lys Gly Met Ile Gln His Phe Arg His Ile Val Ser Leu Val  
 65 70 75 79

<210> 1000  
 <211> 206  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1000  
 Val Thr Thr Thr His Ser Val Gly Arg Gly His Glu Leu Gln Leu  
     1              5             10             15  
 Leu Asn Glu Glu Leu Arg Asn Ile Glu Leu Glu Cys Gln Asn Ile Met  
     20             25             30  
 Gln Ala His Arg Leu Gln Lys Val Thr Asp Gln Tyr Gly Asp Ile Trp  
     35             40             45  
 Thr Leu His Asp Gly Gly Phe Arg Asn Tyr Asn Thr Ser Ile Asp Met  
     50             55             60  
 Gln Arg Gly Lys Leu Asp Asp Ile Met Glu His Pro Glu Lys Ser Asp  
     65             70             75             80  
 Lys Asp Ser Ser Ala Tyr Asn Thr Ala Glu Ser Cys Arg Ser Thr  
     85             90             95  
 Pro Leu Thr Val Asp Arg Ser Pro Asp Ser Ser Leu Pro Arg Val Ile  
     100            105            110  
 Asn Leu Thr Asn Lys Lys Asn Leu Arg Ser Thr Met Ala Ala Thr Gln  
     115            120            125  
 Ser Ser Ser Gly Gln Ser Ser Lys Glu Ser Thr Ser Thr Lys Ala Lys  
     130            135            140  
 Thr Thr Glu Gln Gly Cys Ser Ala Glu Ser Lys Glu Lys Val Leu Glu  
     145            150            155            160  
 Gly Ser Lys Leu Pro Asp Gln Glu Lys Ala Val Ser Glu His Ile Pro  
     165            170            175  
 Tyr Leu Ser Pro Tyr His Ser Ser Ser Tyr Arg Tyr Ala Asn Ile Pro  
     180            185            190  
 Ala His Ala Arg His Tyr Gln Ser Tyr Met Gln Leu Ile Gln  
     195            200            205            206

<210> 1001  
<211> 138  
<212>Amino acid  
<213> Homo sapiens

<400> 1001  
 Val Trp Gly Cys Leu Ala Thr Val Ser Thr His Lys Lys Ile Gln Gly  
     1              5             10             15  
 Leu Pro Phe Gly Asn Cys Leu Pro Val Ser Asp Gly Pro Phe Asn Asn  
     20             25             30  
 Ser Thr Gly Ile Pro Phe Phe Tyr Met Thr Ala Lys Asp Pro Val Val  
     35             40             45  
 Ala Asp Leu Met Lys Asn Pro Met Ala Ser Leu Met Leu Pro Glu Ser  
     50             55             60  
 Glu GLY Glu Phe Cys Arg Lys Asn Ile Val Asp Pro Glu Asp Pro Arg  
     65             70             75             80  
 Cys Val Gln Leu Thr Leu Thr Gly Gln Met Ile Ala Val Ser Pro Glu  
     85             90             95  
 Glu Val Glu Phe Ala Lys Gln Ala Met Phe Ser Arg His Pro Gly Met  
     100            105            110  
 Arg Lys Trp Pro Arg Gln Tyr Glu Trp Phe Phe Met Lys Met Arg Ile  
     115            120            125  
 Glu His Ile Trp Leu Gln Lys Trp Tyr Gly  
     130            135            138

<210> 1002  
<211> 133

<212>Amino acid  
 <213> Homo sapiens

<400> 1002  
 Gln Ala Ala Asn Met Ala Val Ala Arg Val Asp Ala Ala Leu Pro Pro  
 1 5 10 15  
 Gly Glu Gly Ser Val Val Asn Trp Ser Gly Gln Gly Leu Lys Leu  
 20 25 30  
 Gly Pro Asn Leu Pro Cys Glu Ala Asp Ile His Thr Leu Ile Leu Asp  
 35 40 45  
 Lys Asn Gln Ile Ile Lys Leu Glu Asn Leu Glu Lys Cys Lys Arg Leu  
 50 55 60  
 Ile Gln Leu Ser Val Ala Asn Asn Arg Leu Val Arg Met Met Gly Val  
 65 70 75 80  
 Ala Lys Leu Thr Leu Leu Arg Val Leu Asn Leu Pro His Asn Ser Ile  
 85 90 95  
 Gly Cys Val Glu Gly Leu Lys Glu Leu Val His Leu Glu Trp Leu Asn  
 100 105 110  
 Leu Ala Gly Asn Asn Leu Ile Ala Met Gln Ile Asn Ser Cys Thr  
 115 120 125  
 Ala Leu Gln His Leu  
 130 133

<210> 1003  
 <211> 276  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1003  
 Phe Arg Ala Ala Val Gly Ala Val Pro Glu Gly Ala Trp Lys Asp Thr  
 1 5 10 15  
 Ala Gln Leu His Lys Ser Glu Glu Ala Lys Arg Val Leu Arg Tyr Tyr  
 20 25 30  
 Leu Phe Gln Gly Gln Arg Tyr Ile Trp Ile Glu Thr Gln Gln Ala Phe  
 35 40 45  
 Tyr Gln Val Ser Leu Leu Asp His Gly Arg Ser Cys Asp Asp Val His  
 50 55 60  
 Arg Ser Arg His Gly Leu Ser Leu Gln Asp Gln Met Glu Arg Lys Ala  
 65 70 75 80  
 Ile Tyr Gly Pro Asn Val Ile Ser Ile Pro Val Lys Ser Tyr Pro Gln  
 85 90 95  
 Leu Leu Val Asp Glu Ala Phe Ser Ile Ala Leu Trp Leu Ala Asp His  
 100 105 110  
 Tyr Tyr Trp Tyr Ala Leu Cys Ile Phe Leu Ile Ser Ser Ile Ser Ile  
 115 120 125  
 Cys Leu Ser Leu Tyr Lys Thr Arg Lys Gln Ser Gln Thr Leu Arg Asp  
 130 135 140  
 Met Val Lys Leu Ser Met Arg Val Cys Val Cys Arg Pro Gly Gly Glu  
 145 150 155 160  
 Glu Glu Trp Val Asp Ser Ser Glu Leu Val Pro Gly Asp Cys Leu Val  
 165 170 175  
 Leu Ser Gln Glu Gly Leu Met Pro Cys Asp Ala Ala Leu Val Ala  
 180 185 190  
 Gly Glu Cys Met Val Asn Asp Ser Ser Leu Thr Gly Glu Ser Ile Pro  
 195 200 205

Val	Leu	Lys	Thr	Ala	Leu	Pro	Glu	Gly	Leu	Gly	Pro	Tyr	Cys	Ala	Glu
210					215						220				
Thr	His	Arg	Arg	His	Thr	Leu	Phe	Cys	Gly	Thr	Leu	Ile	Leu	His	Ala
225					230					235				240	
Arg	Ala	Tyr	Val	Gly	Pro	His	Val	Leu	Ala	Val	Val	Thr	Arg	Thr	Gly
					245					250				255	
Met	Ser	Arg	Glu	Ala	Gly	Leu	Glu	Arg	Asp	Pro	Gly	Ser	Ala	Pro	Leu
					260				265				270		
Lys	Arg	Trp	Ser												
				275	276										

<210> 1004  
<211> 222  
<212>Amino acid  
<213> Homo sapiens

<400> 1004															
Phe	Val	Gly	Gly	Leu	His	Leu	His	Leu	Cys	Leu	Leu	Leu	Cys	Phe	
1				5					10				15		
Met	Leu	Pro	Glu	Asp	Ala	Ala	Met	Ala	Val	Leu	Thr	Ala	Ser	Asn	His
					20				25				30		
Val	Ser	Asn	Val	Thr	Val	Asn	Tyr	Asn	Ile	Thr	Val	Glu	Arg	Met	Asn
					35				40				45		
Arg	Met	Gln	Gly	Leu	Arg	Val	Ser	Thr	Val	Pro	Ala	Val	Leu	Ser	Pro
		50				55					60				
Asn	Ala	Thr	Leu	Ala	Leu	Thr	Ala	Gly	Val	Leu	Val	Asp	Ser	Ala	Val
65					70				75				80		
Glu	Val	Ala	Phe	Leu	Trp	Thr	Phe	Gly	Asp	Gly	Glu	Gln	Ala	Leu	His
				85				90					95		
Gln	Phe	Gln	Pro	Pro	Tyr	Asn	Glu	Ser	Phe	Pro	Val	Pro	Asp	Pro	Ser
				100				105					110		
Val	Ala	Gln	Val	Leu	Val	Glu	His	Asn	Val	Thr	His	Thr	Tyr	Ala	Ala
				115				120					125		
Pro	Gly	Glu	Tyr	Val	Leu	Thr	Val	Leu	Ala	Ser	Asn	Ala	Phe	Glu	Asn
		130			135					140					
Arg	Thr	Gln	Gln	Val	Leu	Ile	Arg	Ser	Gly	Arg	Val	Pro	Ile	Val	Ser
				145				150				155			160
Leu	Glu	Cys	Val	Ser	Cys	Lys	Ala	Gln	Ala	Val	Tyr	Glu	Val	Ser	Arg
				165				170				175			
Ser	Ser	Tyr	Val	Tyr	Leu	Glu	Gly	Arg	Cys	Leu	Asn	Cys	Ser	Ser	Gly
				180				185				190			
Ser	Lys	Arg	Gly	Arg	Trp	Ala	Ala	Arg	Thr	Phe	Ser	Asn	Lys	Thr	Leu
				195				200				205			
Val	Leu	Asp	Glu	Thr	Thr	Thr	Ser	Thr	Gly	Ser	Ala	Ser	Met		
				210				215				220			222

<210> 1005  
<211> 363  
<212>Amino acid  
<213> Homo sapiens

<400> 1005															
Pro	Glu	Phe	Leu	Gly	Arg	Leu	Phe	Arg	Gly	Lys	Ala	Ala	Thr	Leu	His
1				5						10				15	

Val His Ser Asp Gln Lys Pro Leu His Asp Gly Ala Leu Gly Ser Gln  
 20 25 30  
 Gln Asn Leu Val Arg Met Lys Glu Ala Leu Arg Ala Ser Thr Met Asp  
 35 40 45  
 Val Thr Val Val Leu Pro Ser Gly Leu Glu Lys Arg Ser Val Leu Asn  
 50 55 60  
 Gly Ser His Ala Met Met Asp Leu Leu Val Glu Leu Cys Leu Gln Asn  
 65 70 75 80  
 His Leu Asn Pro Ser His His Ala Leu Glu Ile Arg Ser Ser Glu Thr  
 85 90 95  
 Gln Gln Pro Leu Ser Phe Lys Pro Asn Thr Leu Ile Gly Thr Leu Asn  
 100 105 110  
 Val His Thr Val Phe Leu Lys Glu Lys Val Pro Glu Glu Lys Val Lys  
 115 120 125  
 Pro Gly Pro Pro Lys Val Pro Glu Lys Ser Val Arg Leu Val Val Asn  
 130 135 140  
 Tyr Leu Arg Thr Gln Lys Ala Val Val Arg Val Ser Pro Glu Val Pro  
 145 150 155 160  
 Leu Gln Asn Ile Leu Pro Val Ile Cys Ala Lys Cys Glu Val Ser Pro  
 165 170 175  
 Glu His Val Val Leu Leu Arg Asp Asn Ile Ala Gly Glu Glu Leu Glu  
 180 185 190  
 Leu Ser Lys Ser Leu Asn Glu Leu Gly Ile Lys Glu Leu Tyr Ala Trp  
 195 200 205  
 Asp Asn Arg Arg Glu Thr Phe Arg Lys Ser Ser Leu Gly Asn Asp Glu  
 210 215 220  
 Thr Asp Lys Glu Lys Lys Phe Leu Gly Phe Phe Lys Val Asn Lys  
 225 230 235 240  
 Arg Ser Asn Ser Lys Gly Cys Leu Thr Thr Pro Asn Ser Pro Ser Met  
 245 250 255  
 His Ser Arg Ser Leu Thr Leu Gly Pro Ser Leu Ser Leu Gly Ser Ile  
 260 265 270  
 Ser Gly Val Ser Val Lys Ser Glu Met Lys Lys Arg Arg Ala Pro Pro  
 275 280 285  
 Pro Pro Gly Ser Gly Pro Pro Val Gln Asp Lys Ala Ser Glu Lys Val  
 290 295 300  
 Ser Leu Gly Ser Gln Ile Asp Leu Gln Lys Lys Arg Arg Ala Pro  
 305 310 315 320  
 Ala Pro Pro Pro Gln Pro Pro Pro Ser Pro Leu Ile Pro Asn  
 325 330 335  
 Arg Thr Glu Asp Lys Glu Glu Asn Arg Lys Ser Thr Met Val Tyr Cys  
 340 345 350  
 Cys Ala Ser Phe Pro Thr Gln Ala Lys Arg Phe  
 355 360 363

<210> 1006  
<211> 95  
<212> Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(95)  
<223> X = any amino acid or stop code

<400> 1006  
 Val Gln Trp His Asn Leu His Ser Leu Gln Pro Leu Pro Ala Gly Phe  
 1 5 10 15  
 Lys Xaa Phe Leu Cys Phe Ser Leu Pro Ser Ser Trp Asp Tyr Arg Cys

Ala Pro Pro Leu Pro Ala Pro	20	Phe Phe Tyr Phe Leu Phe Leu Val	25	30
35	40	45		
Glu Leu Gly Phe His His Ile	50	Gly Xaa Ala Gly Leu Glu Leu Thr Ser	55	60
Thr Asp Leu Pro Ala Ser Ala	65	Ser Ala Gly Ile Thr Gly Met	75	80
Ser His Arg Ala Arg Pro Met Asp Phe Phe Leu Leu Lys Ile Leu	85	90	95	

<210> 1007  
<211> 151  
<212>Amino acid  
<213> Homo sapiens

Gly Arg Arg Phe Arg Pro Pro Ser Asp Glu Glu Arg Glu Pro Trp Glu	1	5	10	15
Pro Trp Thr Gln Leu Arg Leu Ser Gly His Leu Lys Pro Leu His Tyr	20	25	30	
Asn Leu Met Leu Thr Ala Phe Met Glu Asn Phe Thr Phe Ser Gly Glu	35	40	45	
Val Asn Val Glu Ile Ala Cys Arg Asn Ala Thr Arg Tyr Val Val Leu	50	55	60	
His Ala Ser Arg Val Ala Val Glu Lys Val Gln Leu Ala Glu Asp Arg	65	70	75	80
Ala Phe Gly Ala Val Pro Val Ala Gly Phe Phe Leu Tyr Pro Gln Thr	85	90	95	
Gln Val Leu Val Val Leu Asn Arg Thr Leu Asp Ala Gln Arg Asn	100	105	110	
Tyr Asn Leu Lys Ile Ile Tyr Asn Ala Leu Ile Glu Asn Glu Leu Leu	115	120	125	
Gly Phe Phe Arg Ser Ser Tyr Val Leu His Gly Glu Arg Arg Phe Leu	130	135	140	
Gly Val Thr Gln Phe Ser Pro	145	150	151	

<210> 1008  
<211> 64  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(64)  
<223> X = any amino acid or stop code

Lys Glu Leu Asp Pro Phe Tyr Asn Ser Xaa Arg Lys Ile Lys Tyr Leu	1	5	10	15
Arg Ile Tyr Leu Thr Lys Glu Val Lys Asp Leu Tyr Lys Glu Asn Tyr	20	25	30	
Lys Thr Leu Leu Lys Glu Ile Thr Asp Asp Thr Asn Lys Lys His Ile	35	40	45	

Pro	Ser	Ser	Trp	Thr	Gly	Arg	Ile	Asn	Thr	Val	Lys	Met	Thr	Ile	Leu
50															64

<210> 1009  
<211> 60  
<212>Amino acid  
<213> Homo sapiens

<400> 1009															
Val	Pro	His	Pro	Leu	Gln	Ala	Ile	His	Glu	Gln	Met	Asn	Cys	Lys	Glu
1				5				10					15		
Tyr	Gln	Glu	Asp	Leu	Ala	Leu	Arg	Ala	Gln	Asn	Asp	Ala	Ala	Arg	
				20				25					30		
Arg	Pro	Ser	Glu	Met	Phe	Lys	Val	Arg	Leu	Ala	Gln	Gly	Arg	Gly	Leu
				35				40					45		
Ala	Ser	Leu	Ser	Ser	Gly	Ile	Gln	Ser	Gly	Val	Gly				
				50				55					60		

<210> 1010  
<211> 44  
<212>Amino acid  
<213> Homo sapiens

<400> 1010															
Arg	Trp	Asn	Ser	Leu	Thr	Cys	Val	Val	Leu	Thr	Phe	Leu	Gly	His	Arg
1				5				10					15		
Leu	Leu	Lys	Arg	Phe	Leu	Val	Pro	Lys	Leu	Arg	Arg	Phe	Leu	Lys	Pro
				20				25					30		
Gln	Gly	His	Pro	Arg	Leu	Leu	Leu	Trp	Phe	Lys	Arg				
				35				40					44		

<210> 1011  
<211> 219  
<212>Amino acid  
<213> Homo sapiens

<400> 1011															
Tyr	Gly	Glu	Phe	Val	Thr	Tyr	Gln	Gly	Val	Ala	Val	Thr	Arg	Ser	Arg
1				5				10					15		
Lys	Glu	Gly	Ile	Ala	His	Asn	Tyr	Lys	Asn	Glu	Thr	Trp	Arg	Ala	
				20				25					30		
Asn	Ile	Asp	Thr	Val	Met	Ala	Trp	Phe	Thr	Glu	Glu	Asp	Leu	Asp	Leu
				35				40					45		
Val	Thr	Leu	Tyr	Phe	Gly	Glu	Pro	Asp	Ser	Thr	Gly	His	Arg	Tyr	Gly
				50				55					60		
Pro	Glu	Ser	Pro	Glu	Arg	Arg	Glu	Met	Val	Arg	Gln	Val	Asp	Arg	Thr
				65				70					75		80

Val Gly Tyr Leu Arg Glu Ser Ile Ala Arg Asn His Leu Thr Asp Arg  
                   85                  90                  95  
 Leu Asn Leu Ile Ile Thr Ser Asp His Gly Met Thr Thr Val Asp Lys  
                   100              105                  110  
 Arg Ala Gly Asp Leu Val Glu Phe His Lys Phe Pro Asn Phe Thr Phe  
                   115              120                  125  
 Arg Asp Ile Glu Phe Glu Leu Asp Tyr Gly Pro Asn Gly Met Leu  
                   130              135                  140  
 Leu Pro Lys Glu Gly Arg Leu Glu Lys Val Tyr Asp Ala Leu Lys Asp  
                   145              150                  155                  160  
 Ala His Pro Lys Leu His Val Tyr Lys Lys Glu Ala Phe Pro Glu Ala  
                   165              170                  175  
 Phe His Tyr Ala Asn Asn Pro Arg Val Thr Pro Leu Leu Met Tyr Ser  
                   180              185                  190  
 Asp Leu Gly Tyr Val Ile His Gly Val Ser Arg Leu Leu Glu Ala Pro  
                   195              200                  205  
 Pro Pro Gly Ala Pro Ser Pro Gly Ser Gly Ser  
                   210              215                  219

<210> 1012  
<211> 89  
<212>Amino acid  
<213> Homo sapiens

<400> 1012  
 Arg Ile Pro Leu Leu Arg Leu Arg Ser Ser Thr Tyr Arg Ser Lys Gly  
   1                  5                  10                  15  
 Phe Asp Val Thr Val Lys His Ser His Gly Ser Trp Thr Gly Phe Gly  
                   20                  25                  30  
 Gly Glu Asp Leu Ala Thr Ile Pro Lys Gly Leu Asn Thr Tyr Phe Leu  
                   35                  40                  45  
 Val Asn Ile Ala Thr Ile Phe Glu Ser Lys Asn Phe Phe Leu Pro Gly  
                   50                  55                  60  
 Ile Lys Trp Asn Gly Ile Leu Gly Leu Ser Tyr Ala Thr Leu Ala Lys  
                   65                  70                  75                  80  
 Pro Ser Ser Ser Leu Glu Thr Phe Phe  
                   85                  89

<210> 1013  
<211> 82  
<212>Amino acid  
<213> Homo sapiens

<400> 1013  
 Ile Lys Ser Tyr Ser Gly Pro Asn Gly Arg Ser Cys Gln Ile Trp Gln  
   1                  5                  10                  15  
 Arg Leu Arg Trp Gly Ser Arg Glu Leu Leu Leu Gly Trp Lys Leu Ser  
                   20                  25                  30  
 His Ser Phe Ser Thr Cys Pro Phe Gln Phe Pro Asp Ile Val Glu Phe  
                   35                  40                  45  
 Cys Glu Ala Met Ala Asn Ala Gly Lys Thr Val Ile Val Ala Ala Leu  
                   50                  55                  60  
 Asp Gly Thr Phe Gln Arg Lys Val Arg Arg Leu Ile Gln Val Trp Ser  
                   65                  70                  75                  80

Trp Asp  
82

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<210> 1014
<211> 107
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(107)
<223> X = any amino acid or stop code
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Tyr	Cys	Phe	Cys	Phe	Asp	Leu	Ieu	His	Xaa	Cys	Ile	His	Arg	Asp	Val
1					5					10				15	
Lys	Pro	Glu	Asn	Ile	Ieu	Ile	Thr	Lys	His	Ser	Val	Ile	Lys	Leu	Cys
					20					25				30	
Asp	Phe	Gly	Phe	Ala	Arg	Leu	Ieu	Thr	Gly	Pro	Ser	Asp	Tyr	Tyr	Thr
					35					40			45		
Asp	Tyr	Val	Ala	Thr	Arg	Trp	Tyr	Arg	Ser	Pro	Glu	Leu	Pro	Val	Gly
					50					55			60		
Asp	Thr	Gln	Tyr	Gly	Pro	Pro	Val	Asp	Val	Trp	Ala	Ile	Gly	Cys	Val
					65					70			75		80
Ser	Ala	Glu	Leu	Ieu	Ser	Gly	Lys	Cys	Leu	Trp	Trp	Pro	Gly	Lys	Ser
					85					90			95		
Asp	Met	Leu	Asp	Gln	Leu	Tyr	Ieu	Arg	Lys						
					100					105			107		

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<210> 1015
<211> 70
<212>Amino acid
<213> Homo sapiens
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Arg	Gly	Trp	Ala	Leu	Asp	Trp	Ile	Gly	Ala	Asp	Leu	Ser	Ieu	His	Leu
1							5				10			15	
Gin	Glu	Glu	Val	Glu	Thr	Glu	Val	Ala	Trp	Glu	Glu	Cys	Gly	His	Val
							20				25			30	
Leu	Leu	Ser	Leu	Cys	Tyr	Ser	Ser	Gln	Gln	Gly	Gly	Leu	Ieu	Val	Gly
							35				40			45	
Val	Leu	Arg	Cys	Ala	His	Ieu	Ala	Pro	Met	Asp	Ala	Asn	Gly	Tyr	Ser
					50					55			60		
Asp	Pro	Phe	Val	Arg	Leu										
					65					70					

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<210> 1016
<211> 142
<212>Amino acid
<213> Homo sapiens
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<400> 1016

Gly	Gly	Ile	Leu	Ala	Met	Glu	Tyr	Ala	Pro	Gly	Gly	Thr	Leu	Ala	Glu
1						5				10					15
Phe	Ile	Gln	Lys	Arg	Cys	Asn	Ser	Leu	Leu	Glu	Glu	Glu	Thr	Ile	Leu
						20				25					30
His	Phe	Phe	Val	Gln	Ile	Leu	Leu	Ala	Leu	His	His	Val	His	Thr	His
						35				40					45
Leu	Ile	Leu	His	Arg	Asp	Leu	Lys	Thr	Gln	Asn	Ile	Leu	Leu	Asp	Lys
						50				55					60
His	Arg	Met	Val	Val	Lys	Ile	Gly	Asp	Phe	Gly	Ile	Ser	Lys	Ile	Leu
						65				70					80
Ser	Ser	Lys	Ser	Lys	Ala	Tyr	Thr	Val	Val	Gly	Thr	Pro	Cys	Tyr	Ile
						85				90					95
Ser	Pro	Glu	Leu	Cys	Glu	Gly	Lys	Pro	Tyr	Asn	Gln	Lys	Ser	Asp	Ile
						100				105					110
Trp	Ala	Lau	Gly	Cys	Val	Leu	Tyr	Glu	Leu	Ala	Ser	Leu	Lys	Arg	Ala
						115				120					125
Phe	Glu	Ala	Ala	Asn	Leu	Pro	Ala	Leu	Val	Leu	Lys	Ile	Met		
						130				135					140
															142

<210> 1017  
<211> 87  
<212>Amino acid  
<213> Homo sapiens

<400> 1017

Val	Gln	Cys	Gly	Gly	Ile	His	Gln	Val	Ser	Gly	Ala	Val	Val	Val	Ser
1						5				10					15
Gly	Leu	Leu	Gln	Gly	Met	Met	Gly	Leu	Leu	Gly	Ser	Pro	Gly	His	Val
						20				25					30
Phe	Pro	His	Cys	Gly	Pro	Leu	Val	Leu	Ala	Pro	Ser	Leu	Val	Val	Ala
						35				40					45
Gly	Leu	Ser	Ala	His	Arg	Glu	Val	Ala	Gln	Phe	Cys	Phe	Thr	His	Trp
						50				55					60
Gly	Leu	Ala	Leu	Leu	Tyr	Val	Ser	Pro	Glu	Arg	Arg	Gly	Met	Val	Pro
						65				70					80
Ser	Gly	Gly	Val	Trp	Gly	Asp									
						85				87					

<210> 1018  
<211> 160  
<212>Amino acid  
<213> Homo sapiens

<400> 1018

Pro	Arg	Met	Thr	Gly	Ser	Thr	His	Ala	Ser	Ala	Pro	Ser	Tyr	Gly	Gly
1							5				10				15
Ser	Cys	Arg	Asn	Asn	Leu	Phe	Tyr	Arg	Glu	Glu	Thr	Tyr	Thr	Pro	Lys
						20				25					30
Ala	Glu	Thr	Asp	Glu	Met	Asn	Glu	Val	Glu	Thr	Ala	Pro	Ile	Pro	Glu
						35				40					45
Glu	Asn	His	Val	Trp	Leu	Gln	Pro	Arg	Val	Met	Arg	Pro	Thr	Lys	Pro

50	55	60	
Lys Lys Thr Ser Ala Val Asn Tyr Met Thr Gln Val Val Arg Cys Asp			
65	70	75	80
Thr Lys Met Lys Asp Arg Cys Ile Gly Ser Thr Cys Asn Arg Tyr Gln			
85	90	95	
Cys Pro Ala Gly Cys Leu Asn His Lys Ala Lys Ile Phe Gly Ser Leu			
100	105	110	
Phe Tyr Glu Ser Phe Ala Ser Ile Cys Arg Ala Ala Ile His Tyr Gly			
115	120	125	
Ile Leu Asp Asp Lys Gly Gly Leu Val Asp Ile Thr Arg Asn Gly Lys			
130	135	140	
Val Pro Phe Phe Val Lys Ser Glu Arg His Gly Val Gln Ser Leu Arg			
145	150	155	160

<210> 1019  
<211> 174  
<212>Amino acid  
<213> Homo sapiens

<400> 1019			
Val Pro Gln Asn Ile Ile Cys Ala Phe Phe Cys Val Pro Cys Arg Phe			
1	5	10	15
Ala Ser Thr Ile Pro Phe Trp Gly Leu Thr Leu His Leu Gln His Leu			
20	25	30	
Gly Asn Asn Val Phe Leu Leu Gln Thr Leu Phe Gly Ala Val Thr Leu			
35	40	45	
Leu Ala Asn Cys Val Ala Pro Trp Ala Leu Asn His Met Ser Arg Arg			
50	55	60	
Leu Ser Gln Met Leu Leu Met Phe Leu Leu Ala Thr Cys Leu Leu Ala			
65	70	75	80
Ile Ile Phe Val Pro Gln Glu Met Gln Thr Leu Arg Val Val Leu Ala			
85	90	95	
Thr Leu Gly Val Gly Ala Ala Ser Leu Gly Ile Thr Cys Ser Thr Ala			
100	105	110	
Gln Glu Asn Glu Leu Ile Pro Ser Ile Ile Arg Gly Arg Ala Thr Gly			
115	120	125	
Ile Thr Gly Asn Phe Ala Asn Ile Gly Gly Ala Leu Ala Ser Leu Val			
130	135	140	
Met Ile Leu Ser Ile Tyr Ser Arg Pro Leu Pro Trp Ile Ile Tyr Gly			
145	150	155	160
Val Phe Ala Ile Leu Ser Gly Leu Val Val Leu Leu Leu Pro			
165	170	174	

<210> 1020  
<211> 225  
<212>Amino acid  
<213> Homo sapiens

<400> 1020			
Val Leu Val Ser Arg Asp His Met Lys Ser Ala Gln Gln Phe Phe Gln			
1	5	10	15
Leu Val Gly Gly Ser Ala Ser Glu Cys Asp Thr Ile Pro Gly Arg Gln			

	20	25	30
Cys	Met Ala Ser Cys Phe Phe Leu	Leu Lys Gln Phe Asp Asp Val Leu	
	35	40	45
Ile	Tyr Leu Asn Ser Phe Lys Ser His Phe Tyr Asn Asp Asp Ile Phe		
	50	55	60
Asn	Phe Asn Tyr Ala Gln Ala Lys Ala Ala Thr Gly Asn Thr Ser Glu		
	65	70	75
Gly	Glu Glu Ala Phe Leu Leu Ile Gln Ser Glu Lys Met Lys Asn Asp		
	85	90	95
Tyr	Ile Tyr Leu Ser Trp Leu Ala Arg Gly Tyr Ile Met Asn Lys Lys		
	100	105	110
Pro	Arg Leu Ala Trp Glu Leu Tyr Leu Lys Met Glu Thr Ser Gly Glu		
	115	120	125
Ser	Phe Ser Leu Leu Gln Leu Ile Ala Asn Asp Cys Tyr Lys Met Gly		
	130	135	140
Gln	Phe Tyr Tyr Ser Ala Lys Ala Phe Asp Val Leu Glu Arg Leu Asp		
	145	150	155
Pro	Asn Pro Glu Tyr Trp Glu Gly Lys Arg Gly Ala Cys Val Gly Ile		
	165	170	175
Phe	Gln Met Ile Ile Ala Gly Arg Glu Pro Lys Glu Thr Leu Arg Glu		
	180	185	190
Val	Leu His Leu Leu Arg Ser Thr Gly Asn Thr Gln Val Glu Tyr Met		
	195	200	205
Ile	Arg Ile Met Lys Lys Trp Ala Lys Glu Asn Arg Val Ser Ile Leu		
	210	215	220
Lys			
	225		

<210> 1021  
 <211> 118  
 <212>Amino acid  
 <213> Homo sapiens

	<400> 1021			
Leu	Lys Val Ser Asp Glu Leu Val Gln Gln Tyr Gln Ile Lys Asn Gln			
	1	5	10	15
Cys	Leu Ser Ala Ile Ala Ser Asp Ala Glu Gln Glu Pro Lys Ile Asp			
	20	25	30	
Pro	Tyr Ala Phe Val Glu Gly Asp Glu Glu Phe Leu Phe Pro Asp Lys			
	35	40	45	
Lys	Asp Arg Gln Asn Ser Glu Arg Glu Ala Gly Lys Lys His Lys Val			
	50	55	60	
Arg	Glu Ile Thr Val His Gln Arg Val Thr Val Asp Phe Val Ala Leu			
	65	70	75	80
His	Ile Val Thr Leu Leu Leu Pro Gln Leu Ser His Phe Phe Cys Leu			
	85	90	95	
Arg	Ile Glu Arg Val Ile Ile Tyr Leu Glu Lys Pro Ile Phe Ala Arg			
	100	105	110	
Leu	Arg Trp Leu Met Pro			
	115	118		

<210> 1022  
 <211> 178  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1022  
 Gly Val Pro Arg Asn Leu Pro Ser Ser Leu Glu Tyr Leu Leu Leu Ser  
 1 5 10 15  
 Tyr Asn Arg Ile Val Lys Leu Ala Pro Glu Asp Leu Ala Asn Leu Thr  
 20 25 30  
 Ala Leu Arg Val Leu Asp Val Gly Gly Asn Cys Arg Arg Cys Asp His  
 35 40 45  
 Ala Pro Asn Pro Cys Met Glu Cys Pro Arg His Phe Pro Gln Leu His  
 50 55 60  
 Pro Asp Thr Phe Ser His Leu Ser Arg Leu Glu Gly Leu Val Leu Lys  
 65 70 75 80  
 Asp Ser Ser Leu Ser Trp Leu Asn Ala Ser Trp Phe Arg Gly Leu Gly  
 85 90 95  
 Asn Leu Arg Val Leu Asp Leu Ser Glu Asn Phe Leu Tyr Lys Cys Ile  
 100 105 110  
 Thr Lys Thr Lys Ala Phe Gln Gly Leu Thr Gln Leu Arg Lys Leu Asn  
 115 120 125  
 Leu Ser Phe Asn Tyr Gln Lys Arg Val Ser Phe Ala His Leu Val Ser  
 130 135 140  
 Gly Pro Pro Phe Leu Arg Gly Ser Leu Gly Arg Pro Leu Lys Gly Ala  
 145 150 155 160  
 Gly Thr Trp His Gly Asn Leu Ser Phe Pro Leu His Phe Glu Trp Gly  
 165 170 175  
 Lys Thr  
 178

<210> 1023  
 <211> 146  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1023  
 Ile Leu Phe Ala Ala Leu Ile Trp Ser Ser Phe Asp Glu Asn Ile Glu  
 1 5 10 15  
 Ala Ser Ala Gly Gly Gly Gly Ser Ser Ile Asp Ala Val Met Val  
 20 25 30  
 Asp Ser Gly Ala Val Val Glu Gln Tyr Lys Arg Met Gln Ser Gln Glu  
 35 40 45  
 Ser Ser Ala Lys Arg Ser Asp Glu Gln Arg Lys Met Lys Glu Gln Gln  
 50 55 60  
 Ala Ala Glu Glu Leu Arg Glu Lys Gln Ala Ala Glu Gln Glu Arg Leu  
 65 70 75 80  
 Lys Gln Leu Glu Lys Glu Arg Leu Ala Ala Gln Glu Gln Lys Lys Gln  
 85 90 95  
 Ala Glu Glu Ala Ala Lys Gln Ala Glu Leu Lys Gln Lys Gln Ala Glu  
 100 105 110  
 Glu Ala Ala Ala Lys Ala Ala Ala Asp Ala Lys Ala Lys Ala Glu Ala  
 115 120 125  
 Asp Ala Lys Ala Ala Glu Glu Ala Ala Lys Lys Ala Ala Ala Asp Ala  
 130 135 140  
 Lys Lys  
 145 146

<210> 1024  
 <211> 39  
 <212>Amino acid

&lt;213&gt; Homo sapiens

<400> 1024  
 Ala Met Glu Ile Val His Glu Pro Arg Asp Leu Glu Arg Tyr Met Arg  
     1             5             10             15  
 Glu Ala Val Lys Val Ser Asn Asp Ser Pro Val Leu Leu Asp Arg Phe  
     20             25             30  
 Leu Asn Asp Ala Ile Glu Cys  
     35             39

<210> 1025  
<211> 53  
<212>Amino acid  
<213> Homo sapiens

<400> 1025  
 Met Leu Ser Pro Gly Tyr Asp Tyr Gly Tyr Val Cys Val Glu Phe Ser  
     1             5             10             15  
 Leu Leu Glu Asp Ala Ile Gly Cys Met Glu Ala Asn Gln Val Ala Leu  
     20             25             30  
 Tyr Phe Gly Gln Met Met Leu Glu Gly Tyr Ile Phe Leu Tyr Met Gly  
     35             40             45  
 Arg Glu Gly Phe Lys  
     50             53

<210> 1026  
<211> 365  
<212>Amino acid  
<213> Homo sapiens

<400> 1026  
 Pro Arg Val Arg Ser Ser Gly Gly Gln Glu Asp Pro Ala Ser Gln Gln  
     1             5             10             15  
 Trp Ala Arg Pro Arg Phe Thr Gln Pro Ser Lys Met Arg Arg Arg Val  
     20             25             30  
 Ile Ala Arg Pro Val Gly Ser Ser Val Arg Leu Lys Cys Val Ala Ser  
     35             40             45  
 Gly His Pro Arg Pro Asp Ile Thr Trp Met Lys Asp Asp Gln Ala Leu  
     50             55             60  
 Thr Arg Pro Glu Ala Ala Glu Pro Arg Lys Lys Trp Thr Leu Ser  
     65             70             75             80  
 Leu Lys Asn Leu Arg Pro Glu Asp Ser Gly Lys Tyr Thr Cys Arg Val  
     85             90             95  
 Ser Asn Arg Ala Gly Ala Ile Asn Ala Thr Tyr Lys Val Asp Val Ile  
     100            105             110  
 Gln Arg Thr Arg Ser Lys Pro Val Leu Thr Gly Thr His Pro Val Asn  
     115            120             125  
 Thr Thr Val Asp Phe Gly Gly Thr Thr Ser Phe Gln Cys Lys Val Arg  
     130            135             140  
 Ser Asp Val Lys Pro Val Ile Gln Trp Leu Lys Arg Val Glu Tyr Gly

145	150	155	160
Ala Glu Gly Arg His Asn Ser Thr Ile Asp Val Gly Gly Gln Lys Phe			
165	170	175	
Val Val Leu Pro Thr Gly Asp Val Trp Ser Arg Pro Asp Gly Ser Tyr			
180	185	190	
Leu Asn Lys Leu Leu Ile Thr Arg Ala Arg Gln Asp Asp Ala Gly Met			
195	200	205	
Tyr Ile Cys Leu Gly Ala Asn Thr Met Gly Tyr Ser Phe Arg Ser Ala			
210	215	220	
Phe Leu Thr Val Leu Pro Asp Pro Lys Pro Pro Gly Pro Pro Val Ala			
225	230	235	240
Ser Ser Ser Ala Thr Ser Leu Pro Trp Pro Val Val Ile Gly Ile			
245	250	255	
Pro Ala Gly Ala Val Phe Ile Leu Gly Thr Leu Leu Leu Trp Leu Cys			
260	265	270	
Gln Ala Gln Lys Lys Pro Cys Thr Pro Ala Pro Ala Pro Pro Leu Pro			
275	280	285	
Gly His Arg Pro Pro Gly Thr Ala Arg Asp Arg Ser Gly Asp Lys Asp			
290	295	300	
Leu Pro Ser Leu Ala Ala Leu Ser Ala Gly Pro Gly Val Gly Leu Cys			
305	310	315	320
Glu Glu His Gly Ser Pro Ala Ala Pro Gln His Leu Leu Gly Pro Gly			
325	330	335	
Pro Val Ala Gly Pro Lys Leu Tyr Pro Lys Leu Tyr Thr Asp Ile Pro			
340	345	350	
His His Thr His Thr His Thr Pro His Pro Pro Ala Asn			
355	360	365	

&lt;210&gt; 1027

&lt;211&gt; 30

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

<400> 1027			
Asn Phe His Phe Thr Gly Lys Cys Leu Phe Met Ser Gly Leu Ser Glu			
1	5	10	15
Val Gln Leu Thr His Met Asp Asp His Thr Leu Pro Gly Tyr			
20	25	30	

&lt;210&gt; 1028

&lt;211&gt; 104

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

<400> 1028			
Ser Pro Arg Lys Arg Lys Thr Arg His Ser Thr Asn Pro Pro Leu Glu			
1	5	10	15
Cys His Val Gly Trp Val Met Asp Ser Arg Asp His Gly Pro Gly Thr			
20	25	30	
Ser Ser Val Ser Thr Ser Asn Ala Ser Pro Ser Glu Gly Ala Pro Leu			
35	40	45	
Ala Gly Ser Tyr Gly Cys Thr Pro His Ser Phe Pro Lys Phe Gln His			
50	55	60	
Pro Ser His Glu Leu Leu Lys Glu Asn Gly Phe Thr Gln Gln Val Tyr			

65	70	75	80
His Lys Tyr Arg Arg Arg Cys Leu Ser Glu Arg Lys Arg Leu Gly Ile			
85	90	95	
Gly Gln Ser Gln Glu Met Asn Thr			
100	104		

<210> 1029  
<211> 119  
<212> Amino acid  
<213> Homo sapiens

<400> 1029			
Pro Gly Ser Gly Gly Ser Ala Gly Gly Arg Asp Gly Ser Ala Tyr Gln			
1	5	10	15
Gly Ala Leu Leu Pro Arg Glu Gln Phe Ala Ala Pro Leu Gly Arg Pro			
20	25	30	
Val Gly Thr Ser Tyr Ser Ala Thr Tyr Pro Ala Tyr Val Ser Pro Asp			
35	40	45	
Val Ala Gln Ser Trp Thr Ala Gly Pro Phe Asp Gly Ser Val Leu His			
50	55	60	
Gly Leu Pro Gly Arg Arg Pro Thr Phe Val Ser Asp Phe Leu Glu Glu			
65	70	75	80
Phe Pro Gly Glu Gly Arg Glu Cys Val Asn Cys Gly Ala Leu Ser Thr			
85	90	95	
Pro Leu Trp Arg Arg Asp Gly Thr Gly His Tyr Leu Cys Asn Ala Cys			
100	105	110	
Gly Leu Tyr His Lys Met Asn			
115	119		

<210> 1030  
<211> 171  
<212> Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(171)  
<223> X = any amino acid or stop code

<400> 1030			
Pro Asp His Arg His Gly Ala Leu Trp Trp Trp Tyr Ser Cys Gly Val			
1	5	10	15
Leu Pro Val Thr Val Ser Arg Asn Glu Gly Asp Glu Arg Asn Gln Val			
20	25	30	
Leu Thr Leu Tyr Leu Trp Ile Arg Gln Glu Trp Thr Asp Ala Tyr Leu			
35	40	45	
Arg Trp Asp Pro Asn Ala Tyr Gly Gly Leu Asp Ala Ile Arg Ile Pro			
50	55	60	
Ser Ser Leu Val Trp Arg Pro Asp Ile Val Leu Tyr Asn Lys Tyr Cys			
65	70	75	80
Leu Ser Ala Ala Pro Pro Leu Ser Tyr Pro Ser Leu Asp Leu Pro Leu			
85	90	95	
Ala Val Gly Val Xaa Xaa Ser Pro Leu Pro Thr Thr Xaa Pro Gly Cys			
100	105	110	

His Ala Ala Leu Glu Ala Phe Pro Gln Asp Pro Ser Lys Leu Pro Ser  
     115                       120                       125  
 Thr Gln Pro Leu His Gly Thr Pro Thr Leu Gly Tyr Pro Arg Pro Ala  
     130                       135                       140  
 Gln Ala Glu Arg Leu Leu Gly Thr Tyr Cys Val Val Gln Gly Arg Cys  
     145                       150                       155                       160  
 Leu Asn His Lys Gly Leu Ser Arg Ala His Phe  
     165   170 171

<210> 1031  
 <211> 198  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1031  
 Tyr Ala Leu Thr Gly Ala Leu Val Ile Val Thr Gly Met Val Met Gly  
     1                       5                       10                       15  
 Asn Ile Ala Asp Tyr Phe Asn Leu Pro Val Ser Ser Met Ser Asn Thr  
     20                       25                       30  
 Phe Thr Phe Leu Asn Ala Gly Ile Leu Ile Ser Ile Phe Leu Asn Ala  
     35                       40                       45  
 Trp Leu Met Glu Ile Val Pro Leu Lys Thr Gln Leu Arg Phe Gly Phe  
     50                       55                       60  
 Leu Leu Met Val Leu Ala Val Ala Gly Leu Met Phe Ser His Ser Leu  
     65                       70                       75                       80  
 Ala Leu Phe Ser Ala Ala Met Phe Ile Leu Gly Val Val Ser Gly Ile  
     85                       90                       95  
 Thr Met Ser Ile Gly Thr Phe Leu Val Thr Gln Met Tyr Glu Gly Arg  
     100                       105                       110  
 Gln Arg Gly Ser Arg Leu Leu Phe Thr Asp Ser Phe Phe Ser Met Ala  
     115                       120                       125  
 Gly Met Ile Phe Pro Met Ile Ala Ala Phe Leu Leu Ala Arg Ser Ile  
     130                       135                       140  
 Glu Trp Tyr Trp Val Tyr Ala Cys Ile Gly Leu Val Tyr Val Ala Ile  
     145                       150                       155                       160  
 Phe Ile Leu Thr Phe Gly Cys Glu Phe Pro Ala Leu Cys Ser His Ala  
     165                       170                       175  
 Thr Lys Leu Gly Thr Ala Ser Ser Tyr Pro Ser Leu Asp Val Val Gln  
     180                       185                       190  
 Leu Arg Thr Leu Asn Ala  
     195                       198

<210> 1032  
 <211> 138  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(138)  
 <223> X = any amino acid or stop code

<400> 1032  
 Met Ala Lys Val Gly Leu Lys Thr Glu His Tyr Asp Arg Tyr Pro His

1	5	10	15
Met Phe Ser Gly Gly Gln Arg Gln Arg Ile Ala Ile Ala Arg Gly Leu	20	25	30
Met Leu Asp Pro Asp Val Val Ile Ala Asp Glu Pro Val Ser Ala Leu	35	40	45
Asp Val Ser Val Arg Ala Gln Val Leu Asn Leu Met Met Asp Leu Gln	50	55	60
Gln Glu Leu Gly Leu Ser Tyr Val Phe Ile Ser His Asp Leu Ser Val	65	70	75
Val Glu His Ile Ala Asp Glu Val Met Val Met Tyr Leu Gly Arg Cys	85	90	95
Val Glu Lys Gly Thr Lys Asp Gln Ile Phe Asn Asn Pro Arg His Pro	100	105	110
Tyr Thr Gln Ala Leu Leu Ser Ala Thr Pro Arg Leu Asn Pro Asp Asp	115	120	125
Arg Arg Glu Arg Ile Lys Leu Ser Xaa *	130	135	137

&lt;210&gt; 1033

&lt;211&gt; 141

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

<400> 1033				
Ser Ala Thr Leu Glu Arg Val Leu Asn His Pro Asp Glu Thr Gln Ala	1	5	10	15
Arg Arg Leu Met Thr Leu Glu Asp Ile Val Ser Gly Tyr Ser Asn Val	20	25	30	
Leu Ile Ser Leu Ala Asp Ser Gln Gly Lys Thr Val Tyr His Ser Pro	35	40	45	
Gly Ala Pro Asp Ile Arg Glu Phe Thr Arg Asp Ala Ile Pro Asp Lys	50	55	60	
Asp Ala Gln Gly Gly Glu Val Tyr Leu Leu Ser Gly Pro Thr Met Met	65	70	75	80
Met Pro Gly His Gly His Met Glu His Ser Asn Trp Arg Met	85	90	95	
Ile Asn Leu Pro Val Gly Pro Leu Val Asp Gly Lys Pro Ile Tyr Thr	100	105	110	
Leu Tyr Ile Ala Leu Ser Ile Asp Phe His Leu His Tyr Ile Asn Asp	115	120	125	
Leu Met Asn Lys Leu Ile Met Thr Ala Ser Val Ile Ile	130	135	140	141

&lt;210&gt; 1034

&lt;211&gt; 112

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

<400> 1034				
Val Leu Ala Tyr Pro Gly Ile Lys Val Ser Thr Ala Glu Ala Arg Ala	1	5	10	15
Ile Leu Pro Ala Gln Tyr Arg Arg Gln Asp Cys Ile Ala His Gly Arg	20	25	30	
His Leu Ala Gly Phe Ile His Ala Cys Tyr Ser Arg Gln Pro Glu Leu				

35	40	45
Ala Ala Lys Leu Met Lys Asp Val Ile Ala Glu Pro Tyr Arg Glu Arg		
50	55	60
Leu Leu Pro Gly Phe Arg Gln Ala Arg Gln Ala Val Ala Glu Ile Gly		
65	70	75
Ala Val Ala Ser Gly Ile Ser Gly Ser Gly Pro Thr Leu Phe Ala Leu		
85	90	95
Cys Asp Lys Pro Glu Thr Ala Gln Arg Val Ala Asp Trp Leu Gly Lys		
100	105	110
		112

<210> 1035  
<211> 92  
<212>Amino acid  
<213> Homo sapiens

<400> 1035		
Gly Gln Gln Gln Arg Val Ala Leu Ala Arg Ala Leu Ile Leu Lys Pro		
1	5	10
Leu Val Leu Leu Phe Asp Glu Pro Leu Ser Asn Leu Asp Ala Asn Leu		
20	25	30
Arg Arg Ser Met Arg Asp Lys Ile Arg Glu Leu Gln Lys Gln Phe Asp		
35	40	45
Ile Thr Ser Leu Tyr Val Thr His Asp Gln Ser Glu Ala Phe Ala Val		
50	55	60
Ser Asp Thr Val Leu Val Met Asn Lys Gly His Ile Met Gln Ile Gly		
65	70	75
Ser Pro Gln Asp Leu Arg Val Arg Leu Asn Trp		
85	90	92

<210> 1036  
<211> 51  
<212>Amino acid  
<213> Homo sapiens

<400> 1036		
Ala Val His Tyr Leu Glu Arg Val Arg Ile Ala Glu His Ala His Lys		
1	5	10
Phe Pro Gly Gln Ile Ser Gly Gly Gln Gln Arg Val Ala Ile Ala		
20	25	30
Arg Ser Leu Cys Met Lys Pro Lys Ile Met Leu Phe Asp Glu Pro Thr		
35	40	45
Ser Ala Leu		
50	51	

<210> 1037  
<211> 72  
<212>Amino acid  
<213> Homo sapiens

<400> 1037  
 Ala Pro Tyr Asp Ala Glu Asn Tyr Phe Asp Tyr Asp Asn Leu Asn Asn  
 1 5 10 15  
 Gly Pro Ser Leu Gln His Trp Phe Gly Val Asp Ser Leu Gly Arg Asp  
 20 25 30  
 Ile Phe Ser Arg Val Val Gly Ala Gln Ile Ser Leu Ala Ala Gly  
 35 40 45  
 Val Phe Ala Val Phe Ile Gly Ala Ala Ile Gly Thr Leu Leu Gly Leu  
 50 55 60  
 Leu Ala Gly Tyr Tyr Glu Gly Trp  
 65 70 72

<210> 1038  
 <211> 188  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1038  
 Val Phe Cys Leu Ile Ala Asp Leu Asp Pro Ile Asp Glu Leu Val Asp  
 1 5 10 15  
 Phe Pro Ile Val Tyr Ala Ser Ala Leu Asn Gly Ile Ala Gly Leu Asp  
 20 25 30  
 His Glu Asp Met Ala Glu Asp Met Thr Pro Leu Tyr Gln Ala Ile Val  
 35 40 45  
 Asp His Val Pro Ala Pro Asp Val Asp Leu Asp Gly Pro Phe Gln Met  
 50 55 60  
 Gln Ile Ser Gln Leu Asp Tyr Asn Ser Tyr Val Gly Val Ile Gly Ile  
 65 70 75 80  
 Gly Arg Ile Lys Arg Gly Lys Val Lys Pro Asn Gln Gln Val Thr Ile  
 85 90 95  
 Ile Asp Ser Glu Gly Lys Thr Arg Asn Ala Lys Val Gly Lys Val Leu  
 100 105 110  
 Gly His Leu Gly Leu Glu Arg Ile Glu Thr Asp Leu Ala Glu Ala Gly  
 115 120 125  
 Asp Ile Val Ala Ile Thr Gly Leu Gly Glu Leu Asn Ile Ser Asp Thr  
 130 135 140  
 Val Cys Asp Thr Gln Asn Val Glu Ala Leu Pro Ala Leu Ser Val Asp  
 145 150 155 160  
 Glu Pro Thr Val Ser Met Phe Phe Cys Val Asn Thr Ser Pro Phe Cys  
 165 170 175  
 Gly Lys Glu Gly Lys Phe Val Thr Ser Arg Gln Ile  
 180 185 188

<210> 1039  
 <211> 122  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1039  
 Gln Gly Thr Arg Ala Glu Ser Gln Gly Ser Ser Lys Asp Lys Thr Arg  
 1 5 10 15  
 Leu Ala Phe Ala Gly Leu Lys Phe Gly Asp Tyr Gly Ser Ile Asp Tyr

Gly	Arg	Asn	Tyr	Gly	Val	Ala	Tyr	Asp	Ile	Gly	Ala	Trp	Thr	Asp	Val
20							25						30		
								40					45		
35															
Leu	Pro	Glu	Phe	Gly	Gly	Asp	Thr	Trp	Thr	Gln	Thr	Asp	Val	Phe	Met
													50		
													55		60
Thr	Gln	Arg	Ala	Thr	Gly	Val	Ala	Thr	Tyr	Arg	Asn	Asn	Asp	Phe	Phe
													65		
													70		75
Gly	Leu	Val	Asp	Gly	Leu	Asn	Phe	Ala	Ala	Gln	Tyr	Gln	Gly	Lys	Asn
													85		90
															95
Asp	Arg	Ser	Asp	Phe	Asp	Asn	Tyr	Thr	Glu	Gly	Asn	Gly	His	Gly	Phe
													100		105
															110
Gly	Phe	Ser	Ala	Thr	Tyr	Glu	Tyr	Gly							
													115		120
															122

&lt;210&gt; 1040

&lt;211&gt; 65

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

Asp	Thr	Tyr	Ser	Val	Ser	Ile	Pro	Leu	Gly	Ala	Thr	Ile	Asn	Met	Ala
1										5		10			15
Gly	Ala	Ala	Ile	Thr	Ile	Thr	Val	Leu	Thr	Leu	Ala	Ala	Val	Asn	Thr
													20		25
															30
Leu	Gly	Ile	Pro	Val	Asp	Leu	Pro	Thr	Ala	Leu	Leu	Leu	Ser	Val	Val
													35		40
															45
Ala	Ser	Leu	Cys	Ala	Cys	Gly	Ala	Ser	Gly	Val	Ala	Gly	Gly	Ser	Leu
													50		55
Leu															60
															65

&lt;210&gt; 1041

&lt;211&gt; 46

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

Ala	Asn	Ala	Gln	Gln	Gly	Leu	Pro	Ser	Gly	Ile	Thr	Leu	Lys	Leu	Asn
1	.									5		10			15
Asn	Leu	Val	Asp	Lys	Gly	Leu	Val	Asp	Arg	Leu	Tyr	Ala	Ala	Ser	Ser
												20		25	30
Ser	Gly	Val	Pro	Val	Asn	Leu	Leu	Val	Arg	Gly	Thr	Cys	Ser		
													35		40
															45
															46

&lt;210&gt; 1042

&lt;211&gt; 146

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

<400> 1042  
 Ala Arg Met Thr Leu Ile Pro Gly Thr His Leu Leu Glu Asn Ile His  
 1 5 10 15  
 Asn Ile Trp Val Asn Gly Val Gly Thr Asn Ser Ala Pro Phe Trp Arg  
 20 25 30  
 Met Leu Leu Asn Ser Phe Val Met Ala Phe Ser Ile Thr Leu Gly Lys  
 35 40 45  
 Ile Thr Val Ser Met Leu Ser Ala Phe Ala Ile Val Trp Phe Arg Phe  
 50 55 60  
 Pro Leu Arg Asn Leu Phe Phe Trp Met Ile Phe Ile Thr Leu Met Leu  
 65 70 75 80  
 Pro Val Glu Val Arg Ile Phe Pro Thr Val Glu Val Ile Ala Asn Leu  
 85 90 95  
 Gln Met Leu Asp Ser Tyr Ala Gly Leu Thr Leu Pro Leu Met Ala Ser  
 100 105 110  
 Ala Thr Ala Thr Phe Leu Phe Arg Lys Leu Asn Met Ser Gly Pro Asp  
 115 120 125  
 Lys Val Val Pro Ala Ala Arg Ile Ser Gly Tyr Gly Pro Arg Val Arg  
 130 135 140  
 Lys Gln  
 145 146

<210> 1043  
<211> 133  
<212>Amino acid  
<213> Homo sapiens

<400> 1043  
 Cys Ala Lys Cys Leu Arg Asp Ala Asp Glu Cys Pro Ser Gly Ala Phe  
 1 5 10 15  
 Glu Arg Ile Gly Arg Asp Ile Ser Leu Asp Ala Leu Glu Arg Glu Val  
 20 25 30 80  
 Met Lys Asp Asp Ile Phe Phe Arg Thr Ser Gly Gly Val Thr Leu  
 35 40 45  
 Ser Gly Gly Glu Val Leu Met Gln Ala Glu Phe Ala Thr Arg Phe Leu  
 50 55 60  
 Gln Arg Leu Arg Leu Trp Gly Val Ser Cys Ala Ile Glu Thr Ala Gly  
 65 70 75 80  
 Asp Ala Pro Ala Ser Lys Leu Leu Pro Leu Ala Lys Leu Cys Asp Glu  
 85 90 95  
 Val Leu Phe Asp Leu Lys Ile Met Asp Ala Thr Gln Ala Arg Asp Val  
 100 105 110  
 Val Lys Met Asn Leu Pro Arg Val Leu Glu Asn Leu Arg Leu Leu Val  
 115 120 125  
 Ser Glu Gly Val Asn  
 130 133

<210> 1044  
<211> 115  
<212>Amino acid  
<213> Homo sapiens

<400> 1044  
 Tyr Leu Leu Leu Phe Val Cys Phe Leu Val Met Ser Leu Leu Val Gly

1	5	10	15
Leu Val Tyr Lys Phe Thr Ala Glu Arg Ala Gly Lys Gln Ser Leu Asp	20	25	30
Asp Leu Met Asn Ser Ser Leu Tyr Leu Met Arg Ser Glu Leu Arg Glu	35	40	45
Ile Pro Pro His Asp Trp Gly Lys Thr Leu Lys Glu Met Asp Leu Asn	50	55	60
Leu Ser Phe Asp Leu Arg Val Glu Pro Leu Ser Lys Tyr His Leu Asp	65	70	75
Asp Ile Ser Met His Arg Leu Arg Gly Gly Glu Ile Val Ala Leu Asp	85	90	95
Asp Gln Tyr Thr Phe Leu Gln Arg Ile Pro Arg Ser His Tyr Val Leu	100	105	110
Ala Val Gly			
	115		

<210> 1045  
<211> 69  
<212>Amino acid  
<213> Homo sapiens

1	5	10	15
Val Glu Leu Phe Leu Ser Asp Glu Gly Asp Asp Val Val Ile Glu Val	20	25	30
Ala Asp Gln Gly Cys Gly Val Pro Glu Ser Leu Arg Asp Lys Ile Phe	35	40	45
Glu Gln Gly Val Ser Thr Arg Ala Asp Glu Pro Gly Glu His Gly Ile	50	55	60
Gly Leu Tyr Leu Ile Ala Ser Tyr Val Thr Arg Cys Gly Gly Val Ile	65		
Thr Leu Glu Asp Asn			
	69		

<210> 1046  
<211> 69  
<212>Amino acid  
<213> Homo sapiens

1	5	10	15
Asp Ala Ile Ile Ala Pro Asp Ala Asn Ala Leu Pro Ala Ala Gln	20	25	30
Ala Ala Glu Asn Leu Lys Asn Asp Lys Val Ala Ile Val Gly Phe Ser	35	40	45
Thr Pro Asn Val Met Arg Pro Tyr Val Glu Arg Gly Thr Val Lys Glu	50	55	60
Phe Gly Leu Trp Asp Val Val Gln Gln Gly Lys Ile Ser Val Tyr Val	65		
Ala Asp Ala Leu Gln			
	69		

<210> 1047  
<211> 43  
<212>Amino acid

&lt;213&gt; Homo sapiens

<400> 1047  
 Tyr Ile Val Val Thr Gly Lys Thr His Cys Gly Thr Pro Leu Thr Thr  
   1               5               10               15  
 Val Thr Gly Asp Ala Thr Gln Ser Gly Tyr Leu Thr Leu Asn Leu Pro  
   20              25              30  
 Glu Met Trp Glu Val Ser Gly Tyr Asn Arg Val  
   35              40              43

<210> 1048  
 <211> 77  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(77)  
 <223> X = any amino acid or stop code

<400> 1048  
 Kaa Glu Gly Val Glu Pro Asp Ile Asn Ala Ser Lys Thr Arg Gln Gln  
   1               5               10               15  
 Leu Asn Asp Val Ala Gly Lys Met Lys Ile Ile Glu Ala Arg Leu Ser  
   20              25              30  
 Ala Ile Thr Asn Asn Gln Thr Lys Ser Leu Lys Leu Asn Pro Val Ala  
   35              40              45  
 Leu Pro Lys Val Ala Ser Gln Leu Leu Asp Glu Leu Gly Tyr Ser Leu  
   50              55              60  
 Leu Ala Arg Arg Ala Asp Leu Gln Ser Ala His Xaa \*  
   65              70              75    76

<210> 1049  
 <211> 79  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1049  
 Glu Asn Ile Ala Glu Glu Tyr Ala Thr Lys Arg Tyr Arg Ser Asn Val  
   1               5               10               15  
 Ile Asn Trp Gly Met Leu Pro Leu Gln Met Ala Glu Val Pro Thr Phe  
   20              25              30  
 Glu Val Gly Asp Tyr Ile Tyr Ile Pro Gly Ile Lys Ala Ala Leu Asp  
   35              40              45  
 Asn Pro Gly Thr Thr Phe Lys Gly Tyr Val Ile His Glu Asp Ala Pro  
   50              55              60  
 Val Thr Glu Ile Thr Leu Tyr Met Glu Ser Gln Glu Ala Arg Thr  
   65              70              75    79

<210> 1050  
<211> 99  
<212>Amino acid  
<213> Homo sapiens

<400> 1050  
Leu Gln Thr Glu Ile Gly Ser Met Val Tyr Ala Val Lys Pro Gly Asp  
1 5 10 15  
Gly Ser Ala Arg Glu Gln Ala Ala Ser Cys Gln Arg Val Ile Gly Gly  
20 25 30  
Leu Ala Asn Ile Ala Glu Glu Tyr Ala Thr Lys Arg Tyr Arg Ser Asn  
35 40 45  
Val Ile Asn Trp Gly Met Leu Pro Leu Gln Met Ala Glu Val Pro Thr  
50 55 60  
Phe Glu Val Gly Asp Tyr Ile Tyr Ile Leu Gly Phe Lys Ala Ala Lys  
65 70 75 80  
Tyr Ser Pro Gly Thr Ala Phe Thr Val Tyr Ala Ile Ser Gly Tyr Gly  
85 90 95  
Pro Arg Ile  
99

<210> 1051 -  
<211> 114  
<212>Amino acid  
<213> Homo sapiens.

<400> 1051  
Thr Leu Glu Asp Leu Leu Met Ala Leu Asp Gly Glu Gln His Leu Gln  
1 5 10 15  
Gln Gln Val Ser Glu Lys Val Leu Ala Asp Asn Val Leu Ile Ala Pro  
20 25 30  
Gly Ser Val Lys Pro Asp Ala Thr Phe Trp Ser Ala Leu Ile Gln Asp  
35 40 45  
Arg Tyr Asn Val Met Thr Cys Ile Glu Lys Asp Ala Cys Val Leu Val  
50 55 60  
Glu Gln Asp Leu Asn Ser Asp Gly Gln Ala Glu Arg Ile Leu Phe Ala  
65 70 75 80  
Phe Asn Asp Asp Arg Val Ile Val Tyr Gly Phe Asp Ser Asp Arg Lys  
85 90 95  
Glu Trp Asp Ala Leu Asp Met Ser Leu Leu Pro Asn Glu Ile Thr Lys  
100 105 110  
Glu Lys  
114

<210> 1052  
<211> 210  
<212>Amino acid  
<213> Homo sapiens

<400> 1052

Glu Ser Asn Ser Arg Cys Arg Lys Met Pro Gly Glu Arg Cys Arg Gly  
 1 5 10 15  
 Gly Pro Ala Arg Leu Ser Leu Leu Leu Asp Leu Pro Thr Arg Pro Leu  
 20 25 30  
 Pro His Pro Arg Gln Val Ile Asp Phe Gly Ser Ala Ser Ile Phe Ser  
 35 40 45  
 Glu Val Arg Tyr Val Lys Glu Pro Tyr Ile Gln Ser Arg Phe Tyr Arg  
 50 55 60  
 Ala Pro Glu Ile Leu Leu Gly Leu Pro Phe Cys Glu Lys Val Asp Val  
 65 70 75 80  
 Trp Ser Leu Gly Cys Val Met Asp Glu Leu His Leu Gly Trp Pro Leu  
 85 90 95  
 Tyr Pro Gly Asn Asn Glu Tyr Asp Gln Val Arg Tyr Ile Cys Glu Thr  
 100 105 110  
 Gln Gly Leu Pro Lys Pro His Leu Leu His Ala Ala Cys Lys Ala His  
 115 120 125  
 His Phe Phe Lys Arg Asn Pro His Pro Asp Ala Ala Asn Pro Trp Gln  
 130 135 140  
 Leu Lys Ser Ser Ala Asp Tyr Leu Ala Glu Thr Lys Val Arg Pro Leu  
 145 150 155 160  
 Glu Arg Arg Lys Tyr Met Leu Lys Ser Leu Asp Gln Ile Glu Thr Val  
 165 170 175  
 Asn Gly Gly Ser Val Ala Ser Arg Leu Thr Phe Pro Asp Arg Glu Ala  
 180 185 190  
 Leu Ala Glu His Ala Asp Leu Lys Ser Met Val Glu Leu Met Lys Arg  
 195 200 205  
 Leu Leu  
 210

<210> 1053  
 <211> 100  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1053  
 Arg Leu Val Lys Lys Arg Val Glu Cys Arg Gln Cys Gly Lys Ala Gly  
 1 5 10 15  
 Arg Asn Gln Ser Thr Leu Lys Thr His Met Arg Ser His Thr Gly Glu  
 20 25 30  
 Lys Pro Tyr Glu Cys Asp His Cys Gly Lys Ala Phe Ser Ile Gly Ser  
 35 40 45  
 Asn Leu Asn Val His Arg Arg Ile His Thr Gly Glu Lys Pro Tyr Glu  
 50 55 60  
 Cys Leu Val Cys Gly Glu Ala Phe Ser Asp His Ser Ser Leu Arg Ser  
 65 70 75 80  
 His Val Lys Thr His Arg Gly Glu Lys Leu Phe Val Ser Ser Val Trp  
 85 90 95  
 Lys Arg Leu Gln  
 100

<210> 1054  
 <211> 194  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1054  
 Cys Gly Pro Gly Phe Ser Leu Ser Phe Phe Leu Arg Trp Ser Phe  
   1                 5                 10                 15  
 Ala Leu Val Ala Gln Ala Gly Val Gln Trp His Asp Leu Gly Ser Leu  
   20                 25                 30  
 Gln Pro Pro Ala Pro Gly Phe Lys Arg Phe Ser Ser Leu Ser Leu Leu  
   35                 40                 45  
 Ser Arg Trp Asp Tyr Arg His Ala His Ala Arg Leu Ile Phe Val Phe  
   50                 55                 60  
 Leu Val Glu Met Gly Phe Leu His Val Gly Gln Ala Gly Leu Glu Leu  
   65                 70                 75                 80  
 Pro Thr Ser Gly Asp Pro Pro Thr Ser Ala Ser Gln Ser Ala Arg Ile  
   85                 90                 95  
 Thr Gly Val Thr Thr Pro Leu Gly Thr Phe Phe Leu Arg Trp  
   100                 105                 110  
 Ser Phe Ala Leu Val Ala Gln Ala Gly Gly Gln Cys Leu Asp Leu Gly  
   115                 120                 125  
 Ser Leu Gln Leu Pro Pro Pro Gly Phe Lys Arg Leu Val Cys His Phe  
   130                 135                 140  
 Gln Thr Pro Gln Lys His Arg Cys Ser Cys Gln Ala Pro Gly Asp Cys.  
   145                 150                 155                 160  
 Leu Gln Glu Ser Phe Val Met Thr Gly Cys Val Leu Arg Thr Val Ser  
   165                 170                 175  
 Glu Ser Val Gln Arg Ala Asn Ala Gly Ala Gly Ala Glu Thr Val Gln  
   180                 185                 190  
 Gly Leu  
   194

<210> 1055  
 <211> 351  
 <212> Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(351)  
 <223> X = any amino acid or stop code

<400> 1055  
 Met Gly Asn Ala Ala Ala Ala Lys Lys Gly Ser Glu Gln Glu Ser Val  
   1                 5                 10                 15  
 Lys Glu Phe Leu Ala Lys Ala Lys Glu Asp Phe Leu Lys Lys Trp Glu  
   20                 25                 30  
 Ser Pro Ala Gln Asn Thr Ala His Leu Asp Gln Phe Glu Arg Ile Lys  
   35                 40                 45  
 Thr Leu Gly Thr Gly Ser Phe Gly Arg Val Met Leu Val Lys His Lys  
   50                 55                 60  
 Glu Thr Gly Asn His Tyr Ala Met Lys Ile Leu Asp Xaa Gln Lys Val  
   65                 70                 75                 80  
 Gly Lys Leu Lys Gln Ile Glu His Thr Leu Asn Glu Lys Arg Ile Leu  
   85                 90                 95  
 Gln Ala Val Asn Phe Pro Phe Leu Val Lys Leu Glu Phe Ser Phe Lys  
   100                 105                 110  
 Asp Asn Ser Asn Leu Tyr Met Val Met Glu Tyr Val Pro Gly Gly Glu  
   115                 120                 125  
 Met Phe Ser His Leu Arg Arg Ile Gly Arg Phe Ser Glu Pro His Ala  
   130                 135                 140  
 Arg Phe Tyr Ala Ala Gln Ile Val Leu Thr Phe Glu Tyr Leu His Ser

145	150	155	160
Leu Asp Leu Ile Tyr Arg Asp Leu Lys Pro Glu Asn Leu Leu Ile Asp			
165	170	175	
Gln Gln Gly Tyr Ile Gln Val Thr Asp Phe Gly Phe Ala Lys Arg Val			
180	185	190	
Lys Gly Arg Thr Trp Thr Leu Cys Gly Thr Pro Glu Tyr Leu Ala Pro			
195	200	205	
Glu Ile Ile Leu Ser Lys Gly Tyr Asn Lys Ala Val Asp Trp Trp Ala			
210	215	220	
Leu Gly Val Leu Ile Tyr Glu Met Ala Ala Gly Tyr Pro Pro Phe Phe			
225	230	235	240
Ala Asp Gln Pro Ile Gln Ile Tyr Glu Lys Ile Val Ser Gly Lys Val			
245	250	255	
Arg Phe Pro Ser His Phe Ser Ser Asp Leu Lys Asp Leu Leu Arg Asn			
260	265	270	
Leu Leu Gln Val Asp Leu Thr Lys Arg Phe Gly Asn Leu Lys Asn Gly			
275	280	285	
Val Asn Asp Ile Lys Asn His Lys Trp Phe Ala Thr Thr Asp Trp Ile			
290	295	300	
Ala Ile Tyr Gln Arg Lys Val Glu Ala Pro Phe Ile Pro Lys Phe Lys			
305	310	315	320
Gly Pro Gly Asp Thr Ser Asn Phe Asp Asp Tyr Glu Glu Glu Ile			
325	330	335	
Arg Val Ser Ile Asn Glu Lys Phe Gly Lys Glu Phe Ser Glu Phe			
340	345	350	351

<210> 1056  
<211> 136  
<212> Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(136)  
<223> X = any amino acid or stop code

<400> 1056
Ser Ser Ser Arg Ser Ser His Gly Asp Ser Pro Pro His Ser Gln Thr
1 5 10 15
Pro Cys Asp Thr Asn Arg Gly Leu Asp Thr Lys His Xaa Asp Ser Gln
20 25 30
Ser Ile Glu Glu Lys Asp Ser Ser Gln Ser Glu Xaa Asn Arg Ile Glu
35 40 45
Arg Arg Lys Glu Val Glu Arg Ile Leu Gln Thr Asn Ser Asp Tyr Met
50 55 60
Xaa His Trp Ser Asn Xaa Pro Glu Asn Ile Leu Pro Lys Lys Phe Phe
65 70 75 80
Ser Lys His Gln Lys Cys Thr Ala Thr Leu Ser Met Arg Asn Thr Ser
85 90 95
Ile Met Lys Lys Glu Gly Leu Phe Xaa Ala Gln Phe Pro Ser Leu Leu
100 105 110
Leu Ser His Leu Pro Ala Val Gly Leu Gly Ile Tyr Thr Gly Thr His
115 120 125
Leu Thr Thr Ser Thr Ser Thr Phe
130 135 136

<210> 1057  
<211> 79

<212>Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> (1)...(79)  
<223> X = any amino acid or stop code

<400> 1057  
Thr Phe His Ser Ser Leu Glu Lys Asn Ile Leu Gln Pro Cys Arg Xaa  
1 5 10 15  
Arg Arg Ala Ile Cys Leu Pro Leu Leu Leu Xaa Pro Ser Val Pro Leu  
20 25 30  
Leu Ala Pro Gln Tyr Phe Ser Asp Leu Arg Asn Ser Ile Val Asn Ser  
35 40 45  
Gln Pro Pro Glu Lys Gln Gln Ala Met His Leu Cys Phe Glu Asn Leu  
50 55 60  
Met Glu Gly Ile Glu Arg Asn Leu Leu Thr Lys Asn Arg Asp Arg  
65 70 75 79

<210> 1058  
<211> 458  
<212>Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> (1)...(458)  
<223> X = any amino acid or stop code

<400> 1058  
Gly Thr Ser Gly Val Gln Gln Glu Ile Ser Arg Leu Thr Asn Glu Asn  
1 5 10 15  
Leu Asp Leu Lys Glu Leu Val Glu Lys Leu Glu Lys Asn Glu Arg Lys  
20 25 30  
Leu Lys Lys Gln Leu Lys Ile Tyr Met Lys Lys Ala Gln Asp Leu Glu  
35 40 45  
Ala Ala Gln Ala Leu Ala Gln Ser Glu Arg Lys Arg His Glu Leu Asn  
50 55 60  
Arg Gln Val Thr Val Gln Arg Lys Glu Lys Asp Phe Gln Gly Met Leu  
65 70 75 80  
Glu Tyr His Lys Glu Asp Glu Ala Leu Leu Ile Arg Asn Leu Val Thr  
85 90 95  
Asp Leu Lys Pro Gln Met Leu Ser Gly Thr Val Pro Cys Leu Pro Ala  
100 105 110  
Tyr Ile Leu Tyr Met Cys Ile Arg His Ala Asp Tyr Thr Asn Asp Asp  
115 120 125  
Leu Lys Val His Ser Leu Leu Thr Ser Thr Ile Asn Gly Ile Lys Lys  
130 135 140  
Val Leu Lys Lys His Asn Asp Asp Phe Glu Met Thr Ser Phe Trp Leu  
145 150 155 160  
Ser Asn Thr Cys Arg Leu Leu His Cys Leu Lys Gln Tyr Ser Gly Asp  
165 170 175  
Glu Gly Phe Met Thr Gln Asn Thr Ala Lys Gln Asn Glu His Cys Leu  
180 185 190

Lys Asn Phe Asp Leu Thr Glu Tyr Arg Gln Val Leu Ser Asp Leu Ser  
 195 200 205  
 Ile Gln Ile Tyr Gln Gln Leu Ile Lys Ile Ala Glu Gly Val Leu Gln  
 210 215 220  
 Pro Met Ile Val Ser Ala Met Leu Glu Asn Xaa Ser Ile Gln Gly Leu  
 225 230 235 240  
 Ser Gly Val Lys Pro Thr Gly Ser Gln Lys His Ser Ser Ser Met Ala  
 245 250 255  
 Asp Glu Asp Asn Ser Tyr Arg Leu Glu Ala Ile Ile Arg Gln Met Asn  
 260 265 270  
 Ala Phe His Thr Val Met Cys Asp Gln Gly Leu Asp Pro Glu Ile Ile  
 275 280 285  
 Leu Gln Val Phe Lys Gln Leu Phe Tyr Met Ile Asn Ala Val Thr Leu  
 290 295 300  
 Asn Asp Leu Leu Leu Arg Lys Asp Val Cys Ser Trp Ser Thr Gly Met  
 305 310 315 320  
 Gln Leu Arg Tyr Asn Ile Ser Gln Leu Glu Trp Leu Arg Gly Arg  
 325 330 335  
 Asn Leu His Gln Ser Gly Ala Val Gln Thr Met Glu Pro Leu Ile Gln  
 340 345 350  
 Ala Ala Gln Leu Leu Gln Leu Lys Lys Lys Thr Gln Glu Asp Ala Glu  
 355 360 365  
 Ala Ile Cys Ser Leu Cys Thr Ser Leu Ser Thr Gln Gln Ile Val Lys  
 370 375 380  
 Ile Leu Asn Leu Tyr Thr Pro Leu Asn Glu Phe Glu Glu Arg Val Thr  
 385 390 395 400  
 Val Ala Phe Ile Arg Thr Ile Gln Ala Gln Leu Gln Glu Arg Asn Asp  
 405 410 415  
 Pro Gln Gln Leu Leu Leu Asp Ala Lys His Met Phe Pro Val Leu Phe  
 420 425 430  
 Pro Phe Asn Pro Ser Ser Leu Thr Met Asp Ser Ile His Ile Pro Ala  
 435 440 445  
 Cys Leu Asn Leu Glu Phe Leu Asn Glu Val  
 450 455 458

<210> 1059  
<211> 82  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(82)  
<223> X = any amino acid or stop code

<400> 1059  
His Glu Glu Asn Thr Ile Leu Lys Ala Ala Glu Val Gln Val Pro Pro  
 1 5 10 15  
Lys Xaa Val Val Thr Pro Glu Ala Lys Ala Phe Ile Xaa Arg Cys Leu  
 20 25 30  
Ala Tyr Gln Lys Glu Asp Cys Ile Asp Ala Gln Gln Leu Ala Cys Asp  
 35 40 45  
Pro Tyr Leu Leu His Tyr Ile Gln Lys Leu Val Phe Val Ser Ser Pro  
 50 55 60  
Ala Gly Ala Ala Ile Ala Ser Thr Phe Gly Val Ser Asn Ser Cys Ser  
 65 70 75 80  
Ser Asn  
 82

<210> 1060  
<211> 277  
<212>Amino acid  
<213> Homo sapiens

<400> 1060  
Gly Thr Thr Asp Glu Ile Met Thr Arg Trp Ala Arg Val Ser Thr Thr  
1 5 10 15  
Tyr Asn Lys Arg Pro Leu Pro Ala Thr Ser Trp Glu Asp Met Lys Lys  
20 25 30  
Gly Ser Phe Glu Gly Thr Ser Gln Asn Leu Pro Lys Arg Lys Gln Leu  
35 40 45  
Glu Ala Asn Arg Leu Ser Leu Lys Asn Asp Ala Pro Gln Ala Lys His  
50 55 60  
Lys Lys Asn Lys Lys Lys Glu Tyr Leu Asn Glu Asp Val Asn Gly  
65 70 75 80  
Phe Met Glu Tyr Leu Arg Gln Asn Ser Gln Met Val His Asn Gly Gln  
85 90 95  
Ile Ile Ala Thr Asp Ser Glu Glu Val Arg Glu Glu Ile Ala Val Ala  
100 105 110  
Leu Lys Lys Asp Ser Arg Arg Glu Gly Arg Arg Leu Lys Arg Gln Ala  
115 120 125  
Ala Lys Lys Asn Ala Met Val Cys Phe His Cys Arg Lys Pro Gly His  
130 135 140  
Gly Ile Ala Asp Cys Pro Ala Ala Leu Glu Asn Gln Asp Met Gly Thr  
145 150 155 160  
Gly Ile Cys Tyr Arg Cys Gly Ser Thr Glu His Glu Ile Thr Lys Cys  
165 170 175  
Lys Ala Lys Val Asp Pro Ala Leu Gly Glu Phe Pro Phe Ala Lys Cys  
180 185 190  
Phe Val Cys Gly Glu Met Gly His Leu Ser Arg Ser Cys Pro Asp Asn  
195 200 205  
Pro Lys Gly Leu Tyr Ala Asp Gly Gly Cys Lys Leu Cys Gly Ser  
210 215 220  
Val Glu His Leu Lys Lys Asp Cys Pro Glu Ser Gln Asn Ser Glu Arg  
225 230 235 240  
Met Val Thr Val Gly Arg Trp Ala Lys Gly Met Ser Ala Asp Tyr Glu  
245 250 255  
Glu Ile Leu Asp Val Pro Lys Pro Gln Lys Pro Lys Thr Lys Ile Pro  
260 265 270  
Lys Val Val Asn Phe  
275 277

<210> 1061  
<211> 95  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(95)  
<223> X = any amino acid or stop code

<400> 1061

Asp His Val Arg Lys Ser Leu Leu Lys Asn Arg Ala Glu Asn Ile Val			
1	5	10	15
Asn Ile Phe Lys Cys Asn Val Val Ser Leu Pro Asn Leu Pro Ala Phe			
20	25	30	
Gly Gln Ala Gln Trp Leu Thr Pro Val Ile Pro Ala Leu Trp Glu Ala			
35	40	45	
Glu Val Gly Gly Ser Xaa Gly Gln Glu Ile Glu Thr Ile Leu Ala Asn			
50	55	60	
Ala Val Lys Ser Pro Phe Leu Leu Lys Ile Gln Lys Lys Lys Ile Ser			
65	70	75	80
Arg Ala Trp Trp Arg Ala Pro Val Ser Pro Arg Tyr Ser Gly Gly			
85	90	95	

<210> 1062  
 <211> 259  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(259)  
 <223> X = any amino acid or stop code

<400> 1062			
Ser Asp Ala Trp Ala Asp Ala Trp Ala Arg Ser Leu Ser Val Ser Pro			
1	5	10	15
Ser Ser Tyr Pro Glu Leu His Thr Glu Val Pro Leu Ser Val Leu Ile			
20	25	30	
Leu Gly Leu Leu Val Val Phe Ile Leu Ser Val Cys Phe Gly Ala Gly			
35	40	45	
Leu Phe Val Phe Val Leu Lys Arg Arg Lys Gly Val Pro Ser Val Pro			
50	55	60	
Arg Asn Thr Asn Asn Leu Asp Val Ser Ser Phe Gln Leu Gln Tyr Gly			
65	70	75	80
Ser Tyr Asn Thr Glu Thr His Asp Lys Thr Asp Gly His Val Tyr Asn			
85	90	95	
Tyr Ile Pro Pro Pro Val Val Gln Met Cys Gln Asn Pro Ile Tyr Met			
100	105	110	
Ala Gly Arg Glu Gly Arg Pro Ser Ser Leu Leu Pro Lys Pro Gly Lys			
115	120	125	
Glu Phe Gln Leu Leu Gly Asn Leu Glu Glu Lys Lys Glu Glu Pro Ala			
130	135	140	
Thr Pro Ala Tyr Thr Ile Ser Ala Thr Glu Leu Leu Glu Lys Gln Ala			
145	150	155	160
Thr Pro Arg Glu Pro Glu Leu Leu Tyr Gln Asn Ile Ala Glu Pro Ser			
165	170	175	
Gln Gly Thr Ser Thr Ala Gln Ala Xaa Ser Thr Ile Thr Phe Val Pro			
180	185	190	
Tyr Leu Lys Gly Gln Phe Ala Pro Ser Tyr Glu Ser Arg Arg Gln Asn			
195	200	205	
Gln Asp Arg Ile Asn Lys Thr Val Leu Tyr Gly Thr Pro Arg Lys Cys			
210	215	220	
Phe Val Gly Gln Ser Lys Pro Asn His Pro Leu Leu Gln Ala Lys Pro			
225	230	235	240
Gln Ser Glu Pro Asp Tyr Leu Glu Val Leu Glu Lys Gln Thr Ala Ile			
245	250	255	
Ser Gln Leu			
259			

<210> 1063  
<211> 498  
<212>Amino acid  
<213> Homo sapiens

<400> 1063  
Ala Leu Cys His Ile Ala Val Gly Gln Gln Met Asn Leu His Trp Leu  
1 5 10 15  
His Lys Ile Gly Leu Val Val Ile Leu Ala Ser Thr Val Val Ala Met  
20 25 30  
Ser Ala Val Ala Gln Leu Trp Glu Asp Glu Trp Glu Val Leu Leu Ile  
35 40 45  
Ser Leu Gln Gly Thr Ala Pro Phe Leu His Val Gly Ala Val Ala Ala  
50 55 60  
Val Thr Met Leu Ser Trp Ile Val Ala Gly Gln Phe Ala Arg Ala Glu  
65 70 75 80  
Arg Thr Ser Ser Gln Val Thr Ile Leu Cys Thr Phe Phe Thr Val Val  
85 90 95  
Phe Ala Leu Tyr Ile Ala Pro Leu Thr Ile Ser Ser Pro Cys Ile Met  
100 105 110  
Glu Lys Lys Asp Leu Gly Pro Lys Pro Ala Leu Ile Gly His Arg Gly  
115 120 125  
Ala Pro Met Leu Ala Pro Glu His Thr Leu Met Ser Phe Arg Lys Ala  
130 135 140  
Leu Glu Gln Lys Leu Tyr Gly Leu Gln Ala Asp Ile Thr Ile Ser Leu  
145 150 155 160  
Asp Gly Val Pro Phe Leu Met His Asp Thr Thr Leu Arg Arg Thr Thr  
165 170 175  
Asn Val Glu Glu Phe Pro Glu Leu Ala Arg Arg Pro Ala Ser Met  
180 185 190  
Leu Asn Trp Thr Thr Leu Gln Arg Leu Asn Ala Gly Gln Trp Phe Leu  
195 200 205  
Lys Thr Asp Pro Phe Trp Thr Ala Ser Ser Leu Ser Pro Ser Asp His  
210 215 220  
Arg Glu Ala Gln Asn Gln Ser Ile Cys Ser Leu Ala Glu Leu Leu Glu  
225 230 235 240  
Leu Ala Lys Gly Asn Ala Thr Leu Leu Leu Asn Leu Arg Asp Pro Pro  
245 250 255  
Arg Glu His Pro Tyr Arg Ser Ser Phe Ile Asn Val Thr Leu Glu Ala  
260 265 270  
Val Leu His Ser Gly Phe Pro Gln His Gln Val Met Trp Leu Pro Ser  
275 280 285  
Arg Gln Arg Pro Leu Val Arg Lys Val Ala Pro Gly Phe Gln Gln Thr  
290 295 300  
Ser Gly Ser Lys Glu Ala Val Ala Ser Leu Arg Arg Gly His Ile Gln  
305 310 315 320  
Arg Leu Asn Leu Arg Tyr Thr Gln Val Ser Arg Gln Glu Leu Arg Asp  
325 330 335  
Tyr Ala Ser Trp Asn Leu Ser Val Asn Leu Tyr Thr Val Asn Ala Pro  
340 345 350  
Trp Leu Phe Ser Leu Leu Trp Cys Ala Gly Val Pro Ser Val Thr Ser  
355 360 365  
Asp Asn Ser His Thr Leu Ser Gln Val Pro Ser Pro Leu Trp Ile Met  
370 375 380  
Pro Pro Asp Glu Tyr Cys Leu Met Trp Val Thr Ala Asp Leu Val Ser  
385 390 395 400  
Phe Thr Leu Ile Val Gly Ile Phe Val Leu Gln Lys Trp Arg Leu Gly  
405 410 415  
Gly Ile Arg Ser Tyr Asn Pro Glu Gln Ile Met Leu Ser Ala Ala Val

Arg Arg Thr Ser Arg Asp Val Ser Ile Met Lys Glu Lys Leu Ile Phe	420                          425	430
435	440	445
Ser Glu Ile Ser Asp Gly Val Glu Val Ser Asp Val Leu Ser Val Cys	450                          455	460
465	470	475
Ser Asp Asn Ser Tyr Asp Thr Tyr Ala Asn Ser Thr Ala Thr Pro Val	480	
Gly Pro Arg Gly Gly Ser His Thr Lys Thr Leu Ile Glu Arg Ser	485	495
Gly Arg		
498		

<210> 1064  
<211> 374  
<212>Amino acid  
<213> Homo sapiens

<400> 1064		
Asn Ser Ala Asp Tyr Gly Asp Gly Pro Asp Ser Ser Asp Ala Asp Pro	1	5                          10                          15
Asp Ser Gly Thr Glu Glu Gly Val Leu Asp Phe Ser Asp Pro Phe Ser	20	25                          30
Thr Glu Val Lys Pro Arg Ile Leu Leu Met Gly Leu Arg Arg Ser Gly	35	40                          45
Lys Ser Ser Ile Gln Lys Val Val Phe His Lys Met Ser Pro Asn Glu	50	55                          60
Thr Leu Phe Leu Glu Ser Thr Asn Lys Ile Cys Arg Glu Asp Val Ser	65	70                          75                          80
Asn Ser Ser Phe Val Asn Phe Gln Ile Trp Asp Phe Pro Gly Gln Ile	85	90                          95
Asp Phe Phe Asp Pro Thr Phe Asp Tyr Glu Met Ile Phe Arg Gly Thr	100	105                          110
Gly Ala Leu Ile Phe Val Ile Asp Ser Gln Asp Asp Tyr Met Glu Ala	115	120                          125
Leu Ala Arg Leu His Leu Thr Val Thr Arg Ala Tyr Lys Val Asn Thr	130	135                          140
Asp Ile Asn Phe Glu Val Phe Ile His Lys Val Asp Gly Leu Ser Asp	145	150                          155                          160
Asp His Lys Ile Glu Thr Gln Arg Asp Ile His Gln Arg Ala Asn Asp	165	170                          175
Asp Leu Ala Asp Ala Gly Leu Glu Lys Ile His Leu Ser Phe Tyr Leu	180	185                          190
Thr Ser Ile Tyr Asp His Ser Ile Phe Glu Ala Phe Ser Lys Val Val	195	200                          205
Gln Lys Leu Ile Pro Gln Leu Pro Thr Leu Glu Asn Leu Leu Asn Ile	210	215                          220
Phe Ile Ser Asn Ser Gly Ile Glu Lys Ala Phe Leu Phe Asp Val Val	225	230                          235                          240
Ser Lys Ile Tyr Ile Ala Thr Asp Ser Thr Pro Val Asp Met Gln Thr	245	250                          255
Tyr Glu Leu Cys Cys Asp Met Ile Asp Val Val Ile Asp Ile Ser Cys	260	265                          270
Ile Tyr Gly Leu Lys Glu Asp Gly Ala Gly Thr Pro Tyr Asp Lys Glu	275	280                          285
Ser Thr Ala Ile Ile Lys Leu Asn Asn Thr Thr Val Leu Tyr Leu Lys	290	295                          300
Glu Val Thr Lys Phe Leu Ala Leu Val Cys Phe Val Arg Glu Glu Ser	305	310                          315                          320
Phe Glu Arg Lys Gly Leu Ile Asp Tyr Asn Phe His Cys Phe Arg Lys		

	325		330		335
Ala Ile His Glu Val Phe Glu Val Arg Met Lys Val Val Lys Ser Arg	340		345		350
Lys Val Gln Asn Arg Leu Gln Lys Lys Lys Arg Ala Thr Pro Asn Gly	355		360		365
Thr Pro Arg Val Leu Leu	370		374		

<210> 1065  
 <211> 278  
 <212>Amino acid  
 <213> Homo sapiens

	<400> 1065				
Arg Thr Arg Gly Arg Asp Pro Gly Ala Gly Phe Arg Arg Thr Ala Asn	1	5	10	15	
Lys Arg Cys Cys Arg Arg Arg Phe Leu Ile Gly Cys Gly Trp Leu Pro	20		25		30
Leu Arg Ser Asp Trp Pro Leu Val Ser Lys Met Leu Ser Lys Gly Leu	35		40		45
Lys Arg Lys Arg Glu Glu Glu Glu Lys Glu Pro Leu Ala Val Asp	50		55		60
Ser Trp Trp Leu Asp Pro Gly His Ala Ala Val Ala Gln Ala Pro Pro	65		70		80
Ala Val Ala Ser Ser Leu Phe Asp Leu Ser Val Leu Lys Leu His	85		90		95
His Ser Leu Gln Gln Ser Glu Pro Asp Leu Arg His Leu Val Leu Val	100		105		110
Val Asn Thr Leu Arg Arg Ile Gln Ala Ser Met Ala Pro Ala Ala Ala	115		120		125
Leu Pro Pro Val Pro Ser Pro Ala Ala Pro Ser Val Ala Asp Asn	130		135		140
Leu Leu Ala Ser Ser Asp Ala Ala Leu Ser Ala Ser Met Ala Ser Leu	145		150		155
Leu Glu Asp Leu Ser His Ile Glu Gly Leu Ser Gln Ala Pro Gln Pro	165		170		175
Leu Ala Asp Glu Gly Pro Pro Gly Arg Ser Ile Gly Gly Ala Ala Pro	180		185		190
Ser Leu Gly Ala Leu Asp Leu Gly Pro Ala Thr Gly Cys Leu Leu	195		200		205
Asp Asp Gly Leu Glu Gly Leu Phe Glu Asp Ile Asp Thr Ser Met Tyr	210		215		220
Asp Asn Glu Leu Trp Ala Pro Ala Ser Glu Gly Leu Lys Pro Gly Pro	225		230		235
Glu Asp Gly Pro Gly Lys Glu Glu Ala Pro Glu Leu Asp Glu Ala Glu	245		250		255
Leu Asp Tyr Leu Met Asp Val Leu Val Gly Thr Gln Ala Leu Glu Arg	260		265		270
Pro Pro Gly Pro Gly Arg	275		278		

<210> 1066  
 <211> 502  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature

<222> (1) . . . (502)  
 <223> X = any amino acid or stop code

<400> 1066  
 Leu Gln Glu Val Lys Ala Arg Arg Asn Thr Leu His Lys Glu Lys Asp  
 1 5 10 15  
 His Leu Val Asn Asp Tyr Glu Gln Asn Met Lys Leu Leu Gln Thr Lys  
 20 25 30  
 Tyr Asp Ala Asp Ile Asn Leu Leu Lys Gln Glu His Ala Leu Ser Ala  
 35 40 45  
 Ser Lys Ala Ser Ser Met Ile Glu Glu Leu Glu Gln Asn Val Cys Gln  
 50 55 60  
 Leu Lys Gln Gln Leu Gln Glu Ser Glu Leu Gln Arg Lys Gln Gln Leu  
 65 70 75 80  
 Arg Asp Gln Glu Asn Lys Phe Gln Met Glu Lys Ser His Leu Lys His  
 85 90 95  
 Ile Tyr Glu Lys Lys Ala His Asp Leu Gln Ser Glu Leu Asp Lys Gly  
 100 105 110  
 Lys Glu Asp Thr Gln Lys Lys Ile His Lys Phe Glu Glu Ala Leu Lys  
 115 120 125  
 Trp Lys Lys Trp Arg Gln Ile Xaa Leu Asp Pro Asn Leu Leu Arg Glu  
 130 135 140  
 Lys Gln Ser Lys Glu Phe Leu Trp Gln Leu Glu Asp Ile Arg Gln Arg  
 145 150 155 160  
 Tyr Glu Gln Gln Ile Val Glu Leu Lys Leu Glu His Glu Gln Glu Lys  
 165 170 175  
 Thr His Leu Leu Gln His Asn Ala Glu Lys Asp Ser Leu Val Arg  
 180 185 190  
 Asp His Glu Arg Glu Ile Glu Asn Leu Glu Lys Gln Leu Arg Ala Ala  
 195 200 205  
 Asn Met Glu His Glu Asn Gln Ile Gln Glu Phe Lys Lys Arg Asp Ala  
 210 215 220  
 Gln Val Ile Ala Asp Met Glu Ala Gln Val His Lys Leu Arg Glu Glu  
 225 230 235 240  
 Leu Ile Asn Val Asn Ser Gln Arg Lys Gln Gln Leu Val Glu Leu Gly  
 245 250 255  
 Leu Leu Arg Glu Glu Glu Lys Gln Arg Ala Thr Arg Glu His Glu Ile  
 260 265 270  
 Val Val Asn Lys Leu Lys Ala Glu Ser Glu Lys Met Lys Ile Glu Leu  
 275 280 285  
 Lys Lys Thr His Ala Ala Glu Thr Glu Met Thr Leu Glu Lys Ala Asn  
 290 295 300  
 Ser Lys Leu Lys Gln Ile Glu Lys Glu Tyr Thr Gln Lys Leu Ala Lys  
 305 310 315 320  
 Ser Ser Gln Ile Ala Glu Leu Gln Thr Thr Ile Ser Ser Leu Lys  
 325 330 335  
 Glu Glu Asn Ser Gln Gln Leu Ala Ala Glu Arg Arg Leu Gln Asp  
 340 345 350  
 Val Arg Gln Lys Phe Glu Asp Glu Lys Lys Gln Leu Ile Arg Asp Asn  
 355 360 365  
 Asp Gln Ala Ile Lys Val Leu Gln Asp Glu Leu Glu Asn Arg Ser Asn  
 370 375 380  
 Gln Val Arg Cys Ala Glu Lys Lys Leu Gln His Lys Glu Leu Glu Ser  
 385 390 395 400  
 Gln Glu Gln Ile Thr Tyr Ile Arg Gln Glu Tyr Glu Thr Lys Leu Lys  
 405 410 415  
 Gly Leu Met Pro Ala Ser Leu Arg Gln Glu Leu Glu Asp Thr Ile Ser  
 420 425 430  
 Ser Leu Lys Ser Gln Val Asn Phe Leu Gln Lys Arg Ala Ser Ile Leu  
 435 440 445

Gln	Glu	Glu	Arg	Asp	Tyr	Ile	Ser	Arg	Gln	Lys	Val	Gln	Pro	Ile	Ser
450						455					460				
Arg	Xaa	Leu	His	Glu	Arg	Met	Gln	Arg	Met	Arg	Ile	Ser	Arg	Leu	Cys
465						470					475				480
Cys	Gly	Thr	Ser	Ser	Ser	Arg	Phe	Glu	Asp	Leu	Asp	Ile	Val	Asn	Cys
						485					490				495
Glu	Ile	Ser	Gly	Ile	Phe										
						500					502				

<210> 1067  
<211> 301  
<212> Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> {1}...{301}  
<223> X = any amino acid or stop code

<400> 1067															
Val	Ile	Asn	Leu	Val	Tyr	Leu	Ile	Ser	Ser	Pro	Arg	Pro	Glu	Leu	Lys
1							5						10		15
Pro	Val	Asp	Lys	Glu	Ser	Glu	Val	Val	Met	Lys	Phe	Pro	Asp	Gly	Phe
							20						25		30
Glu	Lys	Phe	Ser	Pro	Pro	Ile	Leu	Gln	Leu	Asp	Glu	Val	Asp	Phe	Tyr
						35					40		45		
Tyr	Asp	Pro	Lys	His	Val	Ile	Phe	Ser	Arg	Leu	Ser	Val	Ser	Ala	Asp
					50					55		60			
Leu	Glu	Ser	Arg	Ile	Cys	Val	Val	Gly	Glu	Asn	Gly	Ala	Gly	Lys	Ser
					65			70		75		80			
Thr	Met	Leu	Lys	Leu	Leu	Gly	Asp	Leu	Ala	Pro	Val	Arg	Gly	Ile	
					85					90		95			
Arg	His	Ala	His	Arg	Asn	Leu	Lys	Ile	Gly	Tyr	Phe	Ser	Gln	His	His
					100				105		110				
Val	Glu	Gln	Leu	Asp	Leu	Asn	Val	Gln	Cys	Leu	Trp	Glu	Leu	Ala	Gly
					115				120		125				
His	Ala	Ser	Phe	Pro	Gly	Arg	Pro	Glu	Glu	Glu	Tyr	Arg	His	Gln	Leu
					130			135		140					
Gly	Phe	Gly	Met	Gly	Ile	Ser	Gly	Glu	Leu	Ala	Met	Arg	Pro	Leu	Cys
					145			150		155		160			
Gln	Pro	Val	Leu	Gly	Ala	Arg	Lys	Lys	Pro	Lys	Trp	Pro	Phe	Ala	Gln
					165				170		175				
Met	Asp	Tyr	Cys	Pro	Ala	Pro	Thr	Phe	Tyr	Ile	Leu	Asp	Glu	Pro	Thr
					180				185		190				
Asn	His	Leu	Gly	His	Gly	Arg	Ala	Ile	Glu	Ala	Leu	Gly	Pro	Cys	Leu
					195				200		205				
Gln	Thr	Ile	Ser	Gly	Val	Gly	Val	Ile	Leu	Val	Ser	His	Glu	Xaa	Ser
					210			215		220					
Ala	Leu	Ser	Arg	Leu	Val	Cys	Arg	Glu	Leu	Trp	Val	Cys	Xaa	Gly	Gly
					225			230		235		240			
Gly	Val	Thr	Arg	Val	Glu	Arg	Lys	Asp	Phe	Asp	Gln	Tyr	Arg	Ala	Leu
					245				250		255				
Leu	Gln	Gly	Thr	Val	Ser	Ala	Arg	Glu	Gly	Phe	Pro	Leu	Gly	Pro	Pro
					260			265		270					
Arg	Leu	Lys	Asp	Ser	Pro	Arg	Asp	Met	Gly	Leu	Val	Ser	Gln	Thr	Pro
					275				280		285				
Trp	Gly	His	His	Val	Gly	Tyr	Pro	Leu	Pro	Gly	Arg	Gly			
					290			295		300	301				

<210> 1068  
<211> 215  
<212>Amino acid  
<213> Homo sapiens

<400> 1068  
Cys Ser Ala Val Glu Val Lys Met Ala Ala Arg Thr Ala Phe Gly Ala  
1               5               10               15  
Val Cys Arg Arg Leu Trp Gln Gly Leu Gly Asn Phe Ser Val Asn Thr  
20               25               30  
Ser Lys Gly Asn Thr Ala Lys Asn Gly Gly Leu Leu Leu Ser Thr Asn  
35               40               45  
Met Lys Trp Val Gln Phe Ser Asn Leu His Val Asp Val Pro Lys Asp  
50               55               60  
Leu Thr Lys Pro Val Val Thr Ile Ser Asp Glu Pro Asp Ile Leu Tyr  
65               70               75               80  
Lys Arg Leu Ser Val Leu Val Lys Gly His Asp Lys Ala Val Leu Asp  
85               90               95  
Ser Tyr Glu Tyr Phe Ala Val Leu Ala Ala Lys Glu Leu Gly Ile Ser  
100              105              110  
Ile Lys Val His Glu Pro Pro Arg Lys Ile Glu Arg Phe Thr Leu Leu  
115              120              125  
Gln Ser Val His Ile Tyr Lys His Arg Val Gln Tyr Glu Met Arg  
130              135              140  
Thr Leu Tyr Arg Cys Leu Glu Leu Glu His Leu Thr Gly Ser Thr Ala  
145              150              155              160  
Asp Val Tyr Leu Glu Tyr Ile Gln Arg Asn Leu Pro Glu Gly Val Ala  
165              170              175  
Met Glu Val Thr Lys Phe Cys Phe Phe Ile Phe Leu Thr Gln Leu Glu  
180              185              190  
Gln Leu Pro Glu His Ile Lys Glu Pro Ile Trp Glu Thr Leu Ser Glu  
195              200              205  
Glu Lys Glu Glu Ser Lys Ser  
210              215

<210> 1069  
<211> 274  
<212>Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> (1)...(274)  
<223> X = any amino acid or stop code

<400> 1069  
Asp Phe Trp Asp Thr Ala Gly Gln Glu Arg Phe Gln Ser Met His Ala  
1               5               10               15  
Ser Tyr Tyr His Lys Thr His Ala Cys Ile Met Val Phe Asp Val Gln  
20              25              30  
Arg Lys Val Thr His Arg Asn Leu Ser Thr Trp Tyr Thr Glu Leu Arg  
35              40              45  
Glu Phe Arg Pro Glu Ile Pro Cys Ile Val Val Ala Asn Lys Ile Asp  
50              55              60

Gly Gly Ala Ile Pro Ala Pro Gly Cys Xaa Gln Phe Thr Gly Asp Leu  
 65                70                75                80  
 Pro Ser Tyr Ile Ser Ser Ile Pro Arg Ala Gly Asn Leu Gln Xaa  
 85                     90                     95  
 Leu Val Leu Pro Pro Thr Ile Arg Tyr Asn Pro Trp Leu Val Ala Cys  
 100                105                110  
 Ile Leu Pro Thr Leu Xaa Arg Ser Gln Leu Ser Arg Pro Ala Leu Phe  
 115                120                125  
 Pro Arg His Arg Ser Leu Leu Thr Glu Leu Phe Leu Gly Pro Val Ser  
 130                135                140  
 Gln Ser Ser Leu Pro Ile Pro Leu Ser Gly Met Lys Ala Ser Ser Gly  
 145                150                155                160  
 Pro Pro Leu Gln Thr Phe Phe Pro Ser Leu Asp Arg Gln Thr Asn Val  
 165                170                175  
 Leu Pro Ser Leu Tyr Ala Asp Ile Asn Val Thr Gln Lys Ser Phe Asn  
 180                185                190  
 Phe Ala Lys Lys Phe Ser Leu Pro Leu Tyr Phe Val Ser Ala Ala Asp  
 195                200                205  
 Gly Thr Asn Val Val Lys Leu Phe Asn Asp Ala Ile Arg Leu Ala Val  
 210                215                220  
 Ser Tyr Lys Gln Asn Ser Gln Asp Phe Met Asp Glu Ile Phe Gln Glu  
 225                230                235                240  
 Leu Glu Asn Phe Ser Leu Glu Gln Glu Glu Asp Val Pro Asp Gln  
 245                250                255  
 Glu Gln Ser Ser Ser Ile Glu Thr Pro Ser Glu Glu Val Ala Ser Pro  
 260                265                270  
 His Ser  
 274

<210> 1070  
<211> 368  
<212> Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(368)  
<223> X = any amino acid or stop code

<400> 1070  
 Gly Ala Thr Pro Leu Gly Ser Val Gly Gly Arg Thr Gly Lys Met Asp  
 1                5                10                15  
 Ala Ala Thr Leu Thr Tyr Asp Thr Leu Arg Phe Ala Glu Phe Glu Asp  
 20                25                30  
 Phe Pro Glu Thr Ser Glu Pro Val Trp Ile Leu Gly Arg Lys Tyr Ser  
 35                40                45  
 Ile Phe Thr Glu Lys Asp Glu Ile Leu Ser Asp Val Ala Ser Arg Leu  
 50                55                60  
 Trp Phe Thr Tyr Arg Lys Asn Phe Pro Ala Ile Gly Gly Thr Gly Pro  
 65                70                75                80  
 Thr Ser Asp Thr Gly Trp Gly Cys Met Leu Arg Cys Gly Gln Met Ile  
 85                90                95  
 Phe Ala Gln Ala Leu Val Cys Arg His Leu Gly Arg Asp Trp Arg Trp  
 100                105                110  
 Thr Gln Arg Lys Arg Gln Pro Asp Ser Tyr Phe Ser Val Leu Asn Ala  
 115                120                125  
 Phe Ile Asp Arg Lys Asp Ser Tyr Tyr Ser Ile His Gln Ile Ala Gln  
 130                135                140  
 Met Gly Val Gly Glu Gly Lys Ser Ile Gly Gln Trp Tyr Pro Asn

145	150	155	160
Thr Val Ala Gln Val Leu Lys Lys Leu Ala Val Phe Asp Thr Trp Ser			
165	170	175	
Ser Leu Ala Val His Ile Ala Met Asp Asn Thr Val Val Met Glu Glu			
180	185	190	
Ile Arg Arg Leu Cys Arg Thr Ser Val Pro Cys Ala Gly Ala Thr Ala			
195	200	205	
Phe Pro Ala Asp Ser Asp Arg His Cys Asn Gly Phe Pro Ala Gly Ala			
210	215	220	
Glu Val Thr Asn Arg Pro Ser Pro Trp Arg Pro Leu Val Leu Leu Ile			
225	230	235	240
Pro Leu Arg Leu Gly Leu Thr Asp Ile Asn Glu Ala Tyr Val Glu Thr			
245	250	255	
Leu Lys His Cys Phe Met Met Pro Gln Ser Leu Gly Val Ile Gly Gly			
260	265	270	
Lys Pro Asn Ser Ala His Tyr Phe Ile Gly Xaa Val Gly Glu Glu Leu			
275	280	285	
Ile Tyr Leu Asp Pro His Thr Thr Gln Pro Ala Val Glu Pro Thr Asp			
290	295	300	
Gly Cys Phe Ile Pro Asp Glu Ser Phe His Cys Gln His Pro Pro Cys			
305	310	315	320
Arg Met Ser Ile Ala Glu Leu Asp Pro Ser Ile Ala Val Val Arg Gly			
325	330	335	
Gly His Leu Ser Thr Gln Ala Phe Gly Ala Glu Cys Cys Leu Gly Met			
340	345	350	
Thr Arg Lys Thr Phe Gly Phe Leu Arg Phe Phe Phe Ser Met Leu Gly			
355	360	365	368

<210> 1071  
 <211> 81  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1071
Ala Leu Cys Val Val Pro Phe Asn Thr Phe His Asn Asp Phe Leu Leu
1 5 10 15
Leu Asp Lys Glu Gly Thr Leu Asp Pro Val Met Asp Ser Phe Ser Thr
20 25 30
His Trp Thr Thr Ile Gly Pro Ala Asp Met Phe Phe Ser Phe Arg Gln
35 40 45
His Tyr Lys Asn Phe Lys Ser His Gly Thr Asn Pro Ser Lys Ser Val
50 55 60
Trp Ala His Ala Thr Cys Gln Ser Cys Ala Phe Pro Asn Leu Leu Gly
65 70 75 80
Trp
81

<210> 1072  
 <211> 494  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1072  
 Thr Arg Leu Ala Glu Phe Gly Thr Arg Asp Pro Cys Ala Gln Ala Pro  
 1 5 10 15  
 Cys Glu Gln Gln Cys Glu Pro Gly Gly Pro Gln Gly Tyr Ser Cys His  
 20 25 30  
 Cys Arg Leu Gly Phe Arg Pro Ala Glu Asp Asp Pro His Arg Cys Val  
 35 40 45  
 Asp Thr Asp Glu Cys Gln Ile Ala Gly Val Cys Gln Gln Met Cys Val  
 50 55 60  
 Asn Tyr Val Gly Gly Phe Glu Cys Tyr Cys Ser Glu Gly His Glu Leu  
 65 70 75 80  
 Glu Ala Asp Gly Ile Ser Cys Ser Pro Ala Gly Ala Met Gly Ala Gln  
 85 90 95  
 Ala Ser Gln Asp Leu Gly Asp Glu Leu Leu Asp Asp Gly Glu Asp Glu  
 100 105 110  
 Glu Asp Glu Asp Glu Ala Trp Lys Ala Phe Asn Gly Gly Trp Thr Glu  
 115 120 125  
 Met Pro Gly Ile Leu Trp Met Glu Pro Thr Gln Pro Pro Asp Phe Ala  
 130 135 140  
 Leu Ala Tyr Arg Pro Ser Phe Pro Glu Asp Arg Glu Pro Gln Ile Pro  
 145 150 155 160  
 Tyr Pro Glu Pro Thr Trp Pro Pro Pro Ile Ser Ala Pro Arg Val Pro  
 165 170 175  
 Tyr His Ser Ser Val Leu Ser Val Thr Arg Pro Val Val Val Ser Ala  
 180 185 190  
 Thr His Pro Thr Ile Pro Ser Ala His Gln Pro Pro Val Ile Pro Ala  
 195 200 205  
 Thr His Pro Ala Leu Ser Arg Asp His Gln Ile Pro Val Ile Ala Ala  
 210 215 220  
 Asn Tyr Pro Asp Leu Pro Ser Ala Tyr Gln Pro Gly Ile Leu Ser Val  
 225 230 235 240  
 Ser His Ser Ala Gln Pro Pro Ala His Gln Pro Pro Met Ile Ser Thr  
 245 250 255  
 Lys Tyr Pro Glu Leu Phe Pro Ala His Gln Ser Pro Met Phe Pro Asp  
 260 265 270  
 Thr Arg Val Ala Gly Thr Gln Thr Thr His Leu Pro Gly Ile Pro  
 275 280 285  
 Pro Asn His Ala Pro Leu Val Thr Thr Leu Gly Ala Gln Leu Pro Pro  
 290 295 300  
 Gln Ala Pro Asp Ala Leu Val Leu Arg Thr Gln Ala Thr Gln Leu Pro  
 305 310 315 320  
 Ile Ile Pro Thr Ala Gln Pro Ser Leu Thr Thr Thr Ser Arg Ser Pro  
 325 330 335  
 Val Ser Pro Ala His Gln Ile Ser Val Pro Ala Ala Thr Gln Pro Ala  
 340 345 350  
 Ala Leu Pro Thr Leu Leu Pro Ser Gln Ser Pro Thr Asn Gln Thr Ser  
 355 360 365  
 Pro Ile Ser Pro Thr His Pro His Ser Lys Ala Pro Gln Ile Pro Arg  
 370 375 380  
 Glu Asp Gly Pro Ser Pro Lys Leu Ala Leu Trp Leu Pro Ser Pro Ala  
 385 390 395 400  
 Pro Thr Ala Ala Pro Thr Ala Leu Gly Glu Ala Gly Leu Ala Glu His  
 405 410 415  
 Ser Gln Arg Asp Asp Arg Trp Leu Leu Val Ala Leu Leu Val Pro Thr  
 420 425 430  
 Cys Val Phe Leu Val Val Leu Leu Ala Leu Gly Ile Val Tyr Cys Thr  
 435 440 445  
 Arg Cys Gly Pro His Ala Pro Asn Lys Arg Ile Thr Asp Cys Tyr Arg  
 450 455 460  
 Trp Val Ile His Ala Gly Ser Lys Ser Pro Thr Glu Pro Met Pro Pro  
 465 470 475 480  
 Arg Gly Ser Leu Thr Gly Val Gln Thr Cys Arg Thr Ser Val  
 485 490 494

<210> 1073  
<211> 468  
<212>Amino acid  
<213> Homo sapiens

<400> 1073  
Leu Arg Val Arg Arg Pro His Leu Pro Ala Pro Pro Ala Leu Arg  
1 5 10 15  
Ala Arg Arg Ser Asp Arg Arg Ser Ser Arg Ala Pro Ala Ala Phe Pro  
20 25 30  
Pro Arg Pro Pro His Ala Ser Pro Ala Pro Gly Pro Ala Met Ala Gln  
35 40 45  
Ala Val Trp Ser Arg Leu Gly Arg Ile Leu Trp Leu Ala Cys Leu Leu  
50 55 60  
Pro Trp Ala Pro Ala Gly Val Ala Ala Gly Leu Tyr Glu Leu Asn Leu  
65 70 75 80  
Thr Thr Asp Ser Pro Ala Thr Thr Gly Ala Val Val Thr Ile Ser Ala  
85 90 95  
Ser Leu Val Ala Lys Asp Asn Gly Ser Leu Ala Leu Pro Ala Asp Ala  
100 105 110  
His Leu Tyr Arg Phe His Trp Ile His Thr Pro Leu Val Leu Thr Gly  
115 120 125  
Lys Met Glu Lys Gly Leu Ser Ser Thr Ile Arg Val Val Gly His Val  
130 135 140  
Pro Gly Glu Phe Pro Val Ser Val Trp Val Thr Ala Ala Asp Cys Trp  
145 150 155 160  
Met Cys Gln Pro Val Ala Arg Gly Phe Val Val Leu Pro Ile Thr Glu  
165 170 175  
Phe Leu Val Gly Asp Leu Val Val Thr Gln Asn Thr Ser Leu Pro Trp  
180 185 190  
Pro Ser Ser Tyr Leu Thr Lys Thr Val Leu Lys Val Ser Phe Leu Leu  
195 200 205  
His Asp Pro Ser Asn Phe Leu Lys Thr Ala Leu Phe Leu Tyr Ser Trp  
210 215 220  
Asp Phe Gly Asp Gly Thr Gln Met Val Thr Glu Asp Ser Val Val Tyr  
225 230 235 240  
Tyr Asn Tyr Ser Ile Ile Gly Thr Phe Thr Val Lys Leu Lys Val Val  
245 250 255  
Ala Glu Trp Glu Glu Val Glu Pro Asp Ala Thr Arg Ala Val Lys Gln  
260 265 270  
Lys Thr Gly Asp Phe Ser Ala Ser Leu Lys Leu Gln Glu Thr Leu Arg  
275 280 285  
Gly Ile Gln Val Leu Gly Pro Thr Leu Ile Gln Thr Phe Gln Lys Met  
290 295 300  
Thr Val Thr Leu Asn Phe Leu Gly Ser Pro Pro Leu Thr Val Cys Trp  
305 310 315 320  
Arg Leu Lys Pro Glu Cys Leu Pro Leu Glu Glu Gly Glu Cys His Pro  
325 330 335  
Val Ser Val Ala Ser Thr Ala Tyr Asn Leu Thr His Thr Phe Arg Asp  
340 345 350  
Pro Gly Asp Tyr Cys Phe Ser Ile Arg Ala Glu Asn Ile Ile Ser Lys  
355 360 365  
Thr His Gln Tyr His Lys Ile Gln Val Trp Pro Ser Arg Ile Gln Pro  
370 375 380  
Ala Val Phe Ala Phe Pro Cys Ala Thr Leu Ile Thr Val Met Leu Ala  
385 390 395 400  
Phe Ile Met Tyr Met Thr Leu Arg Asn Ala Thr Gln Gln Lys Asp Met  
405 410 415  
Val Glu Asn Pro Glu Pro Pro Ser Gly Val Arg Cys Cys Gln Met

Cys	Cys	Gly	Pro	Phe	Leu	Leu	Glu	Thr	Pro	Ser	Glu	Tyr	Leu	Glu	Ile
		420					425				430				
		435					440				445				
Val	Arg	Glu	Aasn	His	Gly	Leu	Leu	Pro	Pro	Leu	Tyr	Lys	Ser	Val	Lys
		450				455				460					
Thr	Tyr	Thr	Val												
465			468												

<210> 1074  
<211> 288  
<212>Amino acid  
<213> Homo sapiens

<400> 1074															
Val	Val	Glu	Phe	Ala	Phe	Gln	Leu	Ser	Ser	Val	Cys	Leu	Thr		
1		5					10				15				
Val	Ser	Phe	Gly	Trp	Gln	Leu	Gly	Thr	Val	Ser	Ser	Cys	Leu	Ser	Arg
				20				25				30			
Asp	Trp	Phe	Leu	Lys	Gly	Asn	Leu	Leu	Ile	Ile	Ile	Val	Ser	Val	Leu
				35			40					45			
Ile	Ile	Leu	Pro	Leu	Ala	Leu	Met	Lys	His	Leu	Gly	Tyr	Leu	Gly	Tyr
							50	55			60				
Thr	Ser	Gly	Leu	Ser	Leu	Thr	Cys	Met	Leu	Phe	Leu	Val	Ser	Val	
				65			70			75			80		
Ile	Tyr	Lys	Lys	Phe	Gln	Leu	Gly	Cys	Ala	Ile	Gly	His	Asn	Glu	Thr
					85				90			95			
Ala	Met	Glu	Ser	Glu	Ala	Leu	Val	Gly	Leu	Pro	Ser	Gln	Gly	Leu	Asn
					100			105				110			
Ser	Ser	Cys	Glu	Ala	Gln	Met	Phe	Thr	Val	Asp	Ser	Gln	Met	Ser	Tyr
					115			120				125			
Thr	Val	Pro	Ile	Met	Ala	Phe	Ala	Phe	Val	Cys	His	Pro	Glu	Val	Leu
					130			135			140				
Pro	Ile	Tyr	Thr	Glu	Cys	Arg	Pro	Ser	Lys	Arg	Arg	Met	Gln	Ala	
					145			150			155			160	
Val	Ala	Asn	Val	Ser	Ile	Gly	Ala	Met	Phe	Cys	Met	Tyr	Gly	Leu	Thr
					165				170			175			
Ala	Thr	Phe	Gly	Tyr	Leu	Thr	Phe	Tyr	Ser	Ser	Val	Lys	Ala	Glu	Met
					180			185				190			
Leu	His	Met	Tyr	Ser	Gln	Lys	Asp	Pro	Leu	Ile	Leu	Cys	Val	Arg	Leu
					195			200			205				
Ala	Ala	Leu	Leu	Ala	Val	Thr	Leu	Thr	Val	Pro	Val	Val	Leu	Phe	Pro
					210			215			220				
Ile	Arg	Arg	Ala	Leu	Gln	Gln	Leu	Leu	Phe	Pro	Gly	Lys	Ala	Phe	Ser
					225			230			235			240	
Trp	Pro	Arg	His	Val	Ala	Ile	Ala	Leu	Ile	Leu	Leu	Val	Asn		
					245				250			255			
Val	Leu	Val	Ile	Cys	Val	Pro	Thr	Ile	Arg	Asp	Ile	Phe	Gly	Val	Ile
					260				265			270			
Gly	Ser	Thr	Ser	Ala	Pro	Ser	Leu	Ile	Phe	Ile	Leu	Pro	Ser	Cys	Ile
					275			280			285			288	

<210> 1075  
<211> 273  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(273)  
<223> X = any amino acid or stop code

<400> 1075  
Gly Ala Gly Ser Lys Ser Ser Met Met Gln Leu Met His Leu Glu Ser  
1 5 10 15  
Phe Tyr Glu Lys Pro Pro Pro Gly Leu Ile Lys Glu Asp Asp Thr Lys  
20 25 30  
Pro Glu Asp Cys Ile Pro Asp Val Pro Gly Asn Glu His Ala Arg Glu  
35 40 45  
Phe Leu Ala His Thr Pro Thr Lys Gly Leu Trp Met Pro Leu Glu Lys  
50 55 60  
Glu Val Lys Val Lys His Cys Thr Phe His Trp Ile Ala Ser Xaa Phe  
65 70 75 80  
Leu Gly Asp Gly Lys Phe Ile Pro Lys Ala Thr Arg Leu Lys Asp Val  
85 90 95  
Trp Val Ser Asn Xaa Phe Thr Cys Leu Phe Trp Asp Leu Thr Arg Phe  
100 105 110  
Ile His Asp Cys Ile Phe Phe Xaa Asn Trp Ser Leu Met Asn Lys Asn  
115 120 125  
Phe Asn Ile Ile Tyr Xaa Phe Phe Ile Ser Leu Arg Xaa Asn Thr Leu  
130 135 140  
Ile Leu Gln Lys Tyr Phe Pro Phe Ser Leu Leu Gly Trp His Cys  
145 150 155 160  
Lys Trp Tyr Gly His Arg Thr Gly Tyr Lys Glu Cys Pro Phe Phe Ile  
165 170 175  
Lys Asp Asn Gln Lys Leu Gln Gln Phe Arg Val Ala His Glu Asp Phe  
180 185 190  
Met Tyr Asp Ile Ile Arg Asp Asn Lys Gln His Glu Lys Asn Val Arg  
195 200 205  
Ile Gln Gln Leu Lys Gln Leu Glu Asp Ser Thr Ser Gly Glu Asp  
210 215 220  
Arg Ser Ser Ser Ser Ser Glu Gly Lys Glu Lys His Lys Lys Lys  
225 230 235 240  
Lys Lys Lys Glu Lys His Lys Lys Arg Lys Lys Glu Lys Lys Lys Lys  
245 250 255  
Lys Lys Arg Lys His Lys Ser Ser Lys Ser Asn Glu Gly Ser Asp Ser  
260 265 270  
Glu  
273

<210> 1076  
<211> 815  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(815)  
<223> X = any amino acid or stop code

<400> 1076  
Glu Ile Ala Gly Ala Ala Ala Glu Asn Met Leu Gly Ser Leu Leu Cys

1	5	10	15
Leu Pro Gly Ser Gly Ser Val Leu	Leu Asp Pro Cys Thr Gly Ser Thr		
20	25	30	
Ile Ser Glu Thr Thr Ser Glu Ala	Trp Ser Val Glu Val Leu Pro Ser		
35	40	45	
Asp Ser Glu Ala Pro Asp Leu Lys	Gln Glu Glu Arg Leu Gln Glu Leu		
50	55	60	
Glu Ser Cys Ser Gly Leu Gly Ser Thr Ser Asp Asp Thr Asp Val Arg			
65	70	75	80
Glu Val Ser Ser Arg Pro Ser Thr Pro Gly Leu Ser Val Val Ser Gly			
85	90	95	
Ile Ser Ala Thr Ser Glu Asp Ile Pro Asn Lys Ile Glu Asp Leu Arg			
100	105	110	
Ser Glu Cys Ser Ser Asp Phe Gly Gly Lys Asp Ser Val Thr Ser Pro			
115	120	125	
Asp Met Asp Glu Ile Thr His Asp Phe Leu Tyr Ile Leu Gln Pro Lys			
130	135	140	
Gln His Phe Gln His Ile Glu Ala Glu Ala Asp Met Arg Ile Gln Leu			
145	150	155	160
Ser Ser Ser Ala His Gln Leu Thr Ser Pro Pro Ser Gln Ser Glu Ser			
165	170	175	
Leu Leu Ala Met Phe Asp Pro Leu Ser Ser His Glu Gly Ala Ser Ala			
180	185	190	
Val Val Arg Pro Lys Val His Tyr Ala Arg Pro Ser His Pro Pro Pro			
195	200	205	
Asp Pro Pro Ile Leu Glu Gly Ala Val Gly Gly Asn Glu Ala Arg Leu			
210	215	220	
Pro Asn Phe Gly Ser Pro Met Phe Xaa Leu Pro Ala Glu Met Glu Ala			
225	230	235	240
Phe Lys Gln Arg His Ser Tyr Thr Pro Glu Arg Leu Val Arg Ser Arg			
245	250	255	
Ser Ser Asp Ile Val Ser Ser Val Arg Arg Pro Met Ser Asp Pro Ser			
260	265	270	
Trp Asn Arg Arg Pro Gly Asn Glu Glu Arg Leu Pro Pro Ala Ala			
275	280	285	
Ala Ile Gly Ala Thr Ser Leu Val Ala Ala Pro His Ser Ser Ser Ser			
290	295	300	
Ser Pro Ser Lys Asp Ser Ser Arg Gly Glu Thr Glu Glu Arg Lys Asp			
305	310	315	320
Ser Asp Asp Glu Lys Ser Asp Arg Asn Arg Pro Trp Trp Arg Lys Arg			
325	330	335	
Phe Val Ser Ala Met Pro Lys Ala Pro Ile Pro Phe Arg Lys Lys Glu			
340	345	350	
Lys Gln Glu Lys Asp Lys Asp Asp Leu Gly Pro Asp Arg Phe Ser Thr			
355	360	365	
Leu Thr Asp Asp Pro Ser Pro Arg Leu Ser Ala Gln Ala Gln Val Ala			
370	375	380	
Glu Asp Ile Leu Asp Lys Tyr Arg Asn Ala Ile Lys Arg Thr Ser Pro			
385	390	395	400
Ser Asp Gly Ala Met Ala Asn Tyr Glu Ser Thr Glu Val Met Gly Asp			
405	410	415	
Gly Glu Ser Ala His Asp Ser Pro Arg Asp Glu Ala Leu Gln Asn Ile			
420	425	430	
Ser Ala Asp Asp Leu Pro Asp Ser Ala Ser Gln Ala Ala His Pro Gln			
435	440	445	
Asp Ser Ala Phe Ser Tyr Arg Asp Ala Lys Lys Leu Arg Leu Ala			
450	455	460	
Leu Cys Ser Ala Asp Ser Val Ala Phe Pro Val Leu Thr His Ser Thr			
465	470	475	480
Arg Asn Gly Leu Pro Asp His Thr Asp Pro Glu Asp Asn Glu Ile Val			
485	490	495	
Cys Phe Leu Lys Val Gln Ile Ala Glu Ala Ile Asn Leu Gln Asp Lys			
500	505	510	
Asn Leu Met Ala Gln Leu Gln Glu Thr Met Arg Cys Val Cys Arg Phe			

515	520	525
Asp Asn Arg Thr Cys Arg Lys Leu Leu Ala Ser Ile Ala Glu Asp Tyr		
530	535	540
Arg Lys Arg Ala Pro Tyr Ile Ala Tyr Leu Thr Arg Cys Arg Gln Gly		
545	550	555
Leu Gln Thr Thr Gln Ala His Leu Glu Arg Leu Leu Gln Arg Val Leu		
565	570	575
Arg Asp Lys Glu Val Ala Asn Arg Tyr Phe Thr Thr Val Cys Val Arg		
580	585	590
Leu Leu Leu Glu Ser Lys Glu Lys Ile Arg Glu Phe Ile Gln Asp		
595	600	605
Phe Gln Lys Leu Thr Ala Ala Asp Asp Lys Thr Ala Gln Val Glu Asp		
610	615	620
Phe Leu Gln Phe Leu Tyr Gly Ala Met Ala Gln Asp Val Ile Trp Gln		
625	630	635
Asn Ala Ser Glu Glu Gln Leu Gln Asp Ala Gln Leu Ala Ile Glu Arg		
645	650	655
Ser Val Met Asn Arg Ile Phe Lys Leu Ala Phe Tyr Pro Asn Gln Asp		
660	665	670
Gly Asp Ile Leu Arg Asp Gln Val Leu His Glu His Ile Gln Arg Leu		
675	680	685
Ser Lys Val Val Thr Ala Asn His Arg Ala Leu Ile Pro Glu Val		
690	695	700
Tyr Leu Arg Glu Ala Pro Trp Pro Ser Ala Gln Ser Glu Ile Arg Thr		
705	710	715
Ile Ser Ala Tyr Lys Thr Pro Arg Asp Lys Val Gln Cys Ile Leu Arg		
725	730	735
Met Cys Ser Thr Ile Met Asn Leu Leu Ser Leu Ala Asn Glu Asp Ser		
740	745	750
Val Pro Gly Ala Asp Asp Phe Val Pro Val Leu Val Phe Val Leu Ile		
755	760	765
Lys Ala Asn Pro Pro Cys Leu Leu Ser Thr Val Gln Tyr Ile Ser Ser		
770	775	780
Phe Tyr Ala Ser Cys Leu Ser Gly Glu Glu Ser Tyr Trp Trp Met Gln		
785	790	795
Phe Thr Ala Ala Val Glu Phe Ile Lys Thr Ile Asp Asp Arg Lys		
805	810	815

&lt;210&gt; 1077

&lt;211&gt; 256

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1077

Trp Pro Met Ser Leu Ala Arg Gly His Gly Asp Thr Ala Ala Ser Thr		
1	5	10
Ala Ala Pro Leu Ser Glu Glu Gly Val Thr Ser Gly Leu Gln Ala		
20	25	30
Leu Ala Val Glu Asp Thr Gly Gly Pro Ser Ala Ser Ala Gly Lys Ala		
35	40	45
Glu Asp Glu Gly Glu Gly Gly Arg Glu Glu Thr Glu Arg Glu Gly Ser		
50	55	60
Gly Gly Glu Ala Gln Gly Glu Val Pro Ser Ala Gly Gly Glu Glu		
65	70	75
Pro Ala Glu Glu Asp Ser Glu Asp Trp Cys Val Pro Cys Ser Asp Glu		
85	90	95
Glu Val Glu Leu Pro Ala Asp Gly Gln Pro Trp Met Pro Pro Ser		
100	105	110
Glu Ile Gln Arg Leu Tyr Glu Leu Leu Ala Ala His Gly Thr Leu Glu		

115	120	125
Leu Gln Ala Glu Ile Leu Pro Arg Arg Pro Pro Thr Pro Glu Ala Gln		
130	135	140
Ser Glu Glu Glu Arg Ser Asp Glu Glu Pro Glu Ala Lys Glu Glu Glu		
145	150	155
Glu Glu Lys Pro His Met Pro Thr Glu Phe Asp Phe Asp Asp Glu Pro		
165	170	175
Val Thr Pro Lys Asp Ser Leu Ile Asp Arg Arg Arg Thr Pro Gly Ser		
180	185	190
Ser Ala Arg Ser Gln Lys Arg Glu Ala Arg Leu Asp Lys Val Leu Ser		
195	200	205
Asp Met Lys Arg His Lys Lys Leu Glu Glu Gln Ile Leu Arg Thr Gly		
210	215	220
Arg Asp Leu Phe Ser Leu Asp Ser Glu Asp Pro Ser Pro Ala Ser Pro		
225	230	235
Pro Leu Arg Ser Ser Gly Ser Ser Leu Phe Pro Arg Gln Arg Lys Tyr		
245	250	255 256

<210> 1078  
 <211> 590  
 <212> Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(590)  
 <223> X = any amino acid or stop code

<400> 1078
Leu Gly Arg Gly Thr Phe Gly Gln Val Val Xaa Cys Trp Lys Arg Gly
1 5 10 15
Thr Asn Glu Ile Val Ala Ile Lys Ile Leu Lys Asn His Pro Ser Tyr
20 25 30
Ala Arg Gln Gly Gln Ile Glu Val Ser Ile Leu Ala Arg Leu Ser Thr
35 40 45
Glu Ser Ala Asp Asp Tyr Asn Phe Val Arg Ala Tyr Glu Cys Phe Gln
50 55 60
His Lys Asn His Thr Cys Leu Val Phe Glu Met Leu Glu Gln Asn Leu
65 70 75 80
Tyr Asp Phe Leu Lys Gln Asn Lys Phe Ser Pro Leu Pro Leu Lys Tyr
85 90 95
Ile Arg Pro Val Leu Gln Gln Val Ala Thr Ala Leu Met Lys Leu Lys
100 105 110
Ser Leu Gly Leu Ile His Ala Asp Leu Lys Pro Glu Asn Ile Met Leu
115 120 125
Val Asp Pro Ser Arg Gln Pro Tyr Arg Val Lys Val Ile Asp Phe Gly
130 135 140
Ser Ala Ser His Val Ser Lys Ala Val Cys Ser Thr Tyr Leu Gln Ser
145 150 155 160
Arg Tyr Tyr Arg Ala Pro Glu Ile Ile Leu Gly Leu Pro Phe Cys Glu
165 170 175
Ala Ile Asp Met Trp Ser Leu Gly Cys Val Ile Ala Glu Leu Phe Leu
180 185 190
Gly Trp Pro Leu Tyr Pro Gly Ala Ser Glu Tyr Asp Gln Ile Arg Tyr
195 200 205
Ile Ser Gln Thr Gln Gly Leu Pro Ala Glu Tyr Leu Leu Ser Ala Gly
210 215 220

Thr Lys Thr Thr Arg Phe Phe Asn Arg Asp Thr Asp Ser Pro Tyr Pro			
225	230	235	240
Leu Trp Arg Leu Lys Thr Pro Asp Asp His Glu Ala Glu Thr Gly Ile			
245	250	255	
Lys Ser Lys Glu Ala Arg Lys Tyr Ile Phe Asn Cys Leu Asp Asp Met			
260	265	270	
Ala Gln Val Asn Met Thr Thr Asp Leu Glu Gly Ser Asp Met Leu Val			
275	280	285	
Glu Lys Ala Val Arg Arg Glu Phe Ile Asp Leu Leu Lys Lys Met Leu			
290	295	300	
Ser Ile Asp Ser Val Lys Arg Phe Ser Pro Val, Gly Ser Leu Asn His			
305	310	315	320
Pro Phe Val Thr Met Ser Leu Phe Leu Asp Phe Pro His Ser Thr His			
325	330	335	
Val Lys Ser Cys Phe Gln Asn Met Glu Ile Cys Lys Arg Arg Val Asn			
340	345	350	
Met Tyr Asp Thr Val Asn Gln Ser Lys Thr Pro Phe Ile Thr His Val			
355	360	365	
Ala Pro Ser Thr Ser Thr Asn Leu Thr Met Thr Phe Asn Asn Gln Leu			
370	375	380	
Thr Thr Val His Asn Gln Pro Ser Ala Ala Ser Met Ala Ala Val Ala			
385	390	395	400
Gln Arg Ser Met Pro Leu Gln Thr Gly Thr Ala Gln Ile Cys Ala Arg			
405	410	415	
Pro Asp Pro Phe Gln Gln Ala Leu Ile Val Cys Pro Pro Gly Phe Gln			
420	425	430	
Gly Leu Gln Ala Ser Pro Ser Lys His Ala Gly Tyr Ser Val Arg Met			
435	440	445	
Glu Asn Ala Val Pro Ile Val Thr Gln Ala Pro Gly Ala Gln Pro Leu			
450	455	460	
Gln Ile Gln Pro Gly Leu Leu Ala Gln Gln Ala Trp Pro Ser Gly Thr			
465	470	475	480
Gln Gln Ile Leu Pro Pro Ala Trp Gln Gln Leu Thr Gly Val Ala			
485	490	495	
Thr His Thr Ser Val Gln His Ala Ala Val Ile Pro Glu Thr Met Ala			
500	505	510	
Gly Thr Gln Gln Leu Ala Asp Trp Arg Asn Thr His Ala His Gly Ser			
515	520	525	
His Tyr Asn Pro Ile Met Gln Gln Pro Ala Leu Leu Thr Gly His Val			
530	535	540	
Thr Leu Pro Ala Ala Gln Pro Leu Asn Val Gly Val Ala His Val Met			
545	550	555	560
Arg Gln Gln Pro Thr Ser Thr Ser Ser Arg Lys Ser Lys Gln His			
565	570	575	
Leu Tyr Cys Gly Arg Ala Arg Val Ser Lys Ile Ala Ser Arg			
580	585	590	

&lt;210&gt; 1079

&lt;211&gt; 904

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(904)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1079

Glu Phe Ala Ile Cys Arg Tyr Pro Leu Gly Met Ser Gly Gly Gln Ile

1	5	10	15												
Pro	Asp	Glu	Asp	Ile	Thr	Ala	Ser	Ser	Gln	Trp	Ser	Glu	Ser	Thr	Ala
				20		25							30		
Ala	Lys	Tyr	Gly	Arg	Leu	Asp	Ser	Glu	Glu	Gly	Asp	Gly	Ala	Trp	Cys
	35				40							45			
Pro	Glu	Ile	Pro	Val	Glu	Pro	Asp	Asp	Leu	Lys	Glu	Phe	Leu	Gln	Ile
	50			55					60						
Asp	Leu	His	Thr	Leu	His	Phe	Ile	Thr	Leu	Val	Gly	Thr	Gln	Gly	Arg
	65			70					75						80
His	Ala	Gly	Gly	His	Gly	Ile	Glu	Phe	Ala	Pro	Met	Tyr	Lys	Ile	Asn
	85							90					95		
Tyr	Ser	Arg	Asp	Gly	Thr	Arg	Trp	Ile	Ser	Trp	Arg	Asn	Arg	His	Gly
	100							105				110			
Lys	Gln	Val	Leu	Asp	Gly	Asn	Ser	Asn	Pro	Tyr	Asp	Ile	Phe	Leu	Lys
	115							120				125			
Asp	Leu	Glu	Pro	Pro	Ile	Val	Ala	Arg	Phe	Val	Arg	Phe	Ile	Pro	Val
	130					135					140				
Thr	Asp	His	Ser	Met	Asn	Val	Cys	Met	Arg	Val	Glu	Leu	Tyr	Gly	Cys
	145					150				155					160
Val	Trp	Leu	Asp	Gly	Leu	Val	Ser	Tyr	Asn	Ala	Pro	Ala	Gly	Gln	Gln
	165							170				175			
Phe	Val	Leu	Pro	Gly	Gly	Ser	Ile	Ile	Tyr	Leu	Asn	Asp	Ser	Val	Tyr
	180							185				190			
Asp	Gly	Ala	Val	Gly	Tyr	Ser	Met	Thr	Glu	Gly	Leu	Gly	Gln	Leu	Thr
	195							200				205			
Asp	Gly	Val	Ser	Gly	Leu	Asp	Phe	Thr	Gln	Thr	His	Glu	Tyr	His	
	210							215				220			
Val	Trp	Pro	Gly	Tyr	Asp	Tyr	Val	Gly	Trp	Arg	Asn	Glu	Ser	Ala	Thr
	225						230				235				240
Asn	Gly	Tyr	Ile	Glu	Ile	Met	Phe	Glu	Phe	Asp	Arg	Ile	Arg	Asn	Phe
	245							250				255			
Thr	Thr	Met	Lys	Val	His	Cys	Asn	Asn	Met	Phe	Ala	Lys	Gly	Val	Lys
	260							265				270			
Ile	Phe	Lys	Glu	Val	Gln	Cys	Tyr	Phe	Arg	Ser	Glu	Ala	Ser	Glu	Trp
	275							280				285			
Glu	Pro	Asn	Ala	Ile	Ser	Phe	Pro	Leu	Val	Leu	Asp	Asp	Val	Asn	Pro
	290							295				300			
Ser	Ala	Arg	Phe	Val	Thr	Val	Pro	Leu	His	His	Arg	Met	Ala	Ser	Ala
	305					310				315					320
Ile	Lys	Cys	Gln	Tyr	His	Phe	Ala	Asp	Thr	Trp	Met	Met	Phe	Ser	Glu
	325								330				335		
Ile	Thr	Phe	Gln	Ser	Asp	Ala	Ala	Met	Tyr	Asn	Asn	Ser	Glu	Ala	Leu
	340							345				350			
Pro	Thr	Ser	Pro	Met	Ala	Pro	Thr	Thr	Tyr	Asp	Pro	Met	Leu	Lys	Val
	355							360				365			
Asp	Asp	Ser	Asn	Thr	Arg	Ile	Leu	Ile	Gly	Cys	Leu	Val	Ala	Ile	Ile
	370							375				380			
Phe	Ile	Leu	Leu	Ala	Ile	Ile	Val	Ile	Ile	Leu	Trp	Arg	Gln	Phe	Trp
	385							390				395			400
Gln	Lys	Met	Leu	Glu	Lys	Ala	Ser	Arg	Arg	Met	Leu	Asp	Asp	Glu	Met
	405							410				415			
Thr	Val	Ser	Leu	Ser	Leu	Pro	Ser	Asp	Ser	Ser	Met	Phe	Asn	Asn	Asn
	420							425				430			
Arg	Ser	Ser	Pro	Ser	Glu	Gln	Gly	Ser	Asn	Ser	Thr	Tyr	Asp	Arg	
	435							440				445			
Ile	Phe	Pro	Leu	Arg	Pro	Asp	Tyr	Gln	Glu	Pro	Ser	Arg	Leu	Ile	Arg
	450							455				460			
Lys	Leu	Pro	Glu	Phe	Ala	Pro	Gly	Glu	Glu	Ser	Gly	Cys	Ser	Gly	
	465							470				475			480
Val	Val	Lys	Pro	Val	Gln	Pro	Ser	Gly	Pro	Glu	Gly	Val	Pro	His	Tyr
	485							490					495		
Ala	Glu	Ala	Asp	Ile	Val	Asn	Leu	Gln	Gly	Val	Thr	Gly	Gly	Asn	Thr
	500							505				510			
Tyr	Ser	Val	Pro	Ala	Val	Thr	Met	Asp	Leu	Leu	Ser	Gly	Lys	Arg	Cys

515	520	525
Gly Cys Gly Arg Glu Phe Pro Pro Gly Lys Leu Leu Thr Phe Lys Glu		
530	535	540
Lys Leu Gly Glu Gly Glu Phe Gly Glu Val His Leu Cys Glu Val Glu		
545	550	555
Gly Met Glu Lys Phe Lys Asp Lys Asp Phe Ala Leu Asp Val Ser Ala		560
565	570	575
Asn Gln Pro Val Leu Val Ala Val Lys Met Leu Arg Ala Asp Ala Asn		
580	585	590
Lys Asn Ala Arg Asn Asp Phe Leu Lys Glu Ile Lys Ile Met Ser Arg		
595	600	605
Leu Lys Asp Pro Asn Ile Ile His Leu Leu Ser Val Cys Ile Thr Asp		
610	615	620
Asp Pro Leu Cys Met Ile Thr Glu Tyr Met Glu Asn Gly Asp Leu Asn		
625	630	635
Gln Phe Leu Ser Arg His Glu Pro Pro Asn Ser Ser Ser Asp Val		640
645	650	655
Arg Thr Val Ser Tyr Thr Asn Leu Lys Phe Met Ala Thr Gln Ile Ala		
660	665	670
Ser Gly Met Lys Tyr Leu Ser Ser Leu Asn Phe Val His Arg Asp Leu		
675	680	685
Ala Thr Arg Asn Cys Leu Val Gly Lys Asn Tyr Thr Ile Lys Ile Ala		
690	695	700
Asp Phe Gly Met Ser Arg Asn Leu Tyr Ser Gly Asp Tyr Tyr Arg Ile		
705	710	715
Gln Gly Arg Ala Val Leu Pro Ile Arg Trp Met Ser Trp Glu Ser Ile		720
725	730	735
Leu Leu Gly Lys Phe Thr Thr Ala Ser Asp Val Trp Ala Phe Gly Val		
740	745	750
Thr Leu Trp Glu Thr Phe Thr Phe Cys Gln Arg Lys Gly Pro Tyr Ser		
755	760	765
Gln Leu Ser Asp Glu Thr Gly Tyr Xaa Arg Asn Thr Gly Glu Phe Phe		
770	775	780
Pro Arg Pro Lys Gly Gly Gln Thr Tyr Leu Pro Ser Thr Ser Pro Phe		
785	790	795
Val Pro Asp Ser Cys Val Ile Lys Leu Met Leu Ser Cys Trp Arg Arg		800
805	810	815
Asp Thr Lys Asn Arg Pro Ser Phe Gln Glu Ile His Leu Leu Leu		
820	825	830
Gln Gln Gly Asp Glu Arg Cys Cys Gln Cys Leu Ala Met Phe Leu Arg		
835	840	845
Leu Arg Ser Ser Leu Gln Asp Leu Pro Leu Thr His Ala Tyr Ala Thr		
850	855	860
Pro Ser Gly His Leu Met Lys Leu Arg Asp Arg Gly Leu Phe Ala Leu		
865	870	875
Pro Ser Phe Pro Gly His Pro His Ser Leu Pro Leu Thr His Ile Tyr		880
885	890	895
Phe Phe Phe Phe Thr Leu Lys Asn		
900	904	

&lt;210&gt; 1080

&lt;211&gt; 304

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

<400> 1080			
Cys Ser Ala Ser Pro Leu Arg Pro Gly Leu Leu Ala Pro Asp Leu Leu			
1	5	10	15
Tyr Leu Pro Gly Ala Gly Gln Pro Arg Arg Pro Glu Ala Glu Pro Gly			

20	25	30
Gln Lys Pro Val Val Pro Thr Leu Tyr Val Thr Glu Ala Glu Ala His		
35	40	45
Ser Pro Ala Leu Pro Gly Leu Ser Gly Pro Gln Pro Lys Trp Val Glu		
50	55	60
Val Glu Glu Thr Ile Glu Val Arg Val Lys Lys Met Gly Pro Gln Gly		
65	70	75
Val Ser Pro Thr Thr Glu Val Pro Arg Ser Ser Ser Gly His Leu Phe		
85	90	95
Thr Leu Pro Gly Ala Thr Pro Gly Gly Asp Pro Asn Ser Asn Asn Ser		
100	105	110
Asn Asn Lys Leu Leu Ala Gln Glu Ala Trp Ala Gln Gly Thr Thr Ala Met		
115	120	125
Val Gly Val Arg Glu Pro Leu Val Phe Arg Val Asp Ala Arg Gly Ser		
130	135	140
Val Asp Trp Ala Ala Ser Gly Met Gly Ser Leu Glu Glu Glu Gly Thr		
145	150	155
Met Glu Glu Ala Gly Glu Glu Glu Gly Glu Asp Gly Asp Ala Phe Val		
165	170	175
Thr Glu Glu Ser Gln Asp Thr His Ser Leu Gly Asp Arg Asp Pro Lys		
180	185	190
Ile Leu Thr His Asn Gly Arg Met Leu Thr Leu Ala Asp Leu Glu Asp		
195	200	205
Tyr Val Pro Gly Glu Gly Glu Thr Phe His Cys Gly Gly Pro Gly Pro		
210	215	220
Gly Ala Pro Asp Asp Pro Pro Cys Glu Val Ser Val Ile Gln Arg Glu		
225	230	235
Ile Gly Glu Pro Thr Val Gly Ser Leu Cys Cys Ser Ala Trp Gly Met		
245	250	255
His Trp Val Pro Glu Ala Leu Ser Ala Ser Leu Gly Leu Ser Pro Met		
260	265	270
Gly Arg His His Arg Asp Pro Arg Ser Val Ala Leu Arg Ala Pro Pro		
275	280	285
Ser Ser Cys Gly Arg Pro Arg Leu Gly Leu Trp Ala Val Leu Pro Gly		
290	295	300
		304

<210> 1081  
 <211> 139  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1081			
Gln Gly Leu Ala Ala Glu Phe Leu Gln Val Pro Ala Val Thr Arg Ala			
1	5	10	15
Tyr Thr Ala Ala Cys Val Leu Thr Thr Ala Ala Val Gln Leu Glu Leu			
20	25	30	
Leu Ser Pro Phe Gln Leu Tyr Phe Asn Pro His Leu Val Phe Arg Lys			
35	40	45	
Phe Gln Ala Pro Phe Leu Pro Trp Ala Leu Met Gly Phe Ser Leu Leu			
50	55	60	
Leu Gly Asn Ser Ile Leu Val Asp Leu Leu Gly Ile Ala Val Gly His			
65	70	75	80
Ile Tyr Tyr Phe Leu Glu Asp Val Phe Pro Asn Gln Pro Gly Gly Lys			
85	90	95	
Arg Leu Leu Gln Thr Pro Gly Phe Leu Gly Leu Gln Ser Ser Lys Ala			
100	105	110	
Pro Ala Gly Ser Ser Leu Thr Ile Trp Thr Gln Gln Ser Gln Gly Gly			

115	120	125
Pro Gly Thr Ala Gly Glu Leu Ala Ala Pro Ser		
130	135	139

<210> 1082  
<211> 1105  
<212> Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> (1)...(1105)  
<223> X = any amino acid or stop code

<400> 1082  
Glu Lys Asn Ala Leu Glu Pro Thr Val Tyr Phe Gly Met Gly Val Xaa  
1               5               10               15  
Ala Pro Gln Val Pro Arg Phe Gln Gln Arg Ile Thr Gly Tyr Gln Tyr  
20               25               30  
Tyr Leu Gln Leu Arg Lys Asp Ile Trp Glu Gly Ile Pro Cys Thr  
35               40               45  
Leu Glu Gln Pro Ile His Leu Ala Gly Leu Ala Val Gln Ala Ile Phe  
50               55               60  
Gly Asp Phe Asp Gln Tyr Glu Ser Gln Asp Phe Leu Gln Lys Phe Ala  
65               70               75               80  
Leu Phe Pro Val Gly Trp Leu Gln Asp Glu Lys Val Leu Glu Glu Ala  
85               90               95  
Thr Gln Lys Val Ala Leu Leu His Gln Lys Tyr Arg Gly Leu Thr Ala  
100              105              110  
Pro Asp Ala Glu Met Leu Tyr Met Gln Glu Val Glu Arg Met Asp Gly  
115              120              125  
Tyr Gly Glu Ser Tyr Pro Ala Lys Asp Ser Gln Gly Ser Asp Ile  
130              135              140  
Ser Ile Gly Ala Cys Leu Glu Gly Ile Phe Val Lys His Lys Asn Gly  
145              150              155              160  
Arg His Pro Val Val Phe Arg Trp His Asp Ile Ala Asn Met Ser His  
165              170              175  
Asn Lys Ser Phe Phe Ala Leu Glu Leu Ala Asn Lys Glu Glu Thr Ile  
180              185              190  
Gln Phe Gln Thr Glu Asp Met Glu Thr Ala Lys Tyr Ile Trp Arg Leu  
195              200              205  
Cys Val Ala Arg His Lys Phe Tyr Arg Leu Asn Gln Cys Asn Leu Gln  
210              215              220  
Thr Gln Thr Val Thr Val Asn Pro Ile Arg Arg Arg Ser Ser Arg  
225              230              235              240  
Met Ser Leu Pro Lys Pro Gln Pro Tyr Val Met Pro Pro Pro Gln  
245              250              255  
Leu His Tyr Asn Gly His Tyr Thr Glu Pro Tyr Ala Ser Ser Gln Asp  
260              265              270  
Asn Leu Phe Val Pro Asn Gln Glu Gly Tyr Tyr Gly Gln Phe Gln Thr  
275              280              285  
Ser Leu Asn Arg Ala Gln Ile Asp Phe Asn Gly Arg Ile Arg Asn Ala  
290              295              300  
Ser Val Tyr Ser Ala His Ser Thr Asn Ser Leu Asn Asn Pro Gln Pro  
305              310              315              320  
Tyr Leu Gln Pro Ser Pro Met Ser Ser Asn Pro Ser Ile Thr Gly Ser  
325              330              335  
Asp Val Met Arg Pro Asp Tyr Leu Pro Ser His Arg His Ser Ala Val  
340              345              350

Ile Pro Pro Ser Tyr Arg Pro Thr Pro Asp Tyr Glu Thr Val Met Lys  
 355 360 365  
 Gln Leu Asn Arg Gly Leu Val His Ala Glu Arg Gln Ser His Ser Leu  
 370 375 380  
 Arg Asn Leu Asn Ile Gly Ser Ser Tyr Ala Tyr Ser Arg Pro Ala Ala  
 385 390 395 400  
 Leu Val Tyr Ser Gln Pro Glu Ile Arg Glu His Ala Gln Leu Pro Ser  
 405 410 415  
 Pro Ala Ala Ala His Cys Pro Phe Ser Leu Ser Tyr Ser Phe His Ser  
 420 425 430  
 Pro Ser Pro Tyr Pro Tyr Pro Ala Glu Arg Arg Pro Val Val Gly Ala  
 435 440 445  
 Val Ser Val Pro Glu Leu Thr Asn Ala Gln Leu Gln Ala Gln Asp Tyr  
 450 455 460  
 Pro Ser Pro Asn Ile Met Arg Thr Gln Val Tyr Arg Pro Pro Pro Pro  
 465 470 475 480  
 Tyr Pro Pro Pro Arg Pro Ala Asn Ser Thr Pro Asp Leu Ser Arg His  
 485 490 495  
 Leu Tyr Ile Ser Ser Ser Asn Pro Asp Leu Ile Thr Arg Arg Val His  
 500 505 510  
 His Ser Val Gln Thr Phe Gln Glu Asp Ser Leu Pro Val Ala His Ser  
 515 520 525  
 Leu Gln Glu Val Ser Glu Pro Leu Thr Ala Ala Arg His Ala Gln Leu  
 530 535 540  
 His Lys Arg Asn Ser Ile Glu Val Ala Gly Leu Ser His Gly Leu Glu  
 545 550 555 560  
 Gly Leu Arg Leu Lys Glu Arg Thr Leu Ser Ala Ser Ala Ala Glu Val  
 565 570 575  
 Ala Pro Arg Ala Val Ser Val Gly Ser Gln Pro Ser Val Phe Thr Glu  
 580 585 590  
 Arg Thr Gln Arg Glu Gly Pro Glu Glu Ala Glu Gly Leu Arg Tyr Gly  
 595 600 605  
 His Lys Lys Ser Leu Ser Asp Ala Thr Met Leu Ile His Ser Ser Glu  
 610 615 620  
 Glu Glu Glu Asp Glu Asp Phe Glu Glu Glu Ser Gly Ala Arg Ala Pro  
 625 630 635 640  
 Pro Ala Arg Ala Arg Glu Pro Arg Pro Gly Leu Ala Gln Asp Pro Pro  
 645 650 655  
 Gly Cys Pro Arg Val Leu Leu Ala Gly Pro Leu His Ile Leu Glu Pro  
 660 665 670  
 Lys Ala His Val Pro Asp Ala Glu Lys Arg Met Met Asp Ser Ser Pro  
 675 680 685  
 Val Arg Thr Thr Ala Glu Ala Gln Arg Pro Trp Arg Asp Gly Leu Leu  
 690 695 700  
 Met Pro Ser Met Ser Glu Ser Asp Leu Thr Thr Ser Gly Arg Tyr Arg  
 705 710 715 720  
 Ala Arg Arg Asp Ser Leu Lys Lys Arg Pro Val Ser Asp Leu Leu Ser  
 725 730 735  
 Gly Lys Lys Asn Ile Val Glu Gly Leu Pro Pro Leu Gly Gly Met Lys  
 740 745 750  
 Lys Thr Arg Val Asp Ala Lys Lys Ile Gly Pro Leu Lys Leu Ala Ala  
 755 760 765  
 Leu Asn Gly Leu Ser Leu Ser Arg Val Pro Leu Pro Asp Glu Gly Lys  
 770 775 780  
 Glu Val Ala Thr Arg Ala Thr Asn Asp Glu Arg Cys Lys Ile Leu Glu  
 785 790 795 800  
 Gln Arg Leu Glu Gln Gly Met Val Phe Thr Glu Tyr Glu Arg Ile Leu  
 805 810 815  
 Lys Lys Arg Leu Val Asp Gly Glu Cys Ser Thr Ala Arg Leu Pro Glu  
 820 825 830  
 Asn Ala Glu Arg Asn Arg Phe Gln Asp Val Leu Pro Tyr Asp Asp Val  
 835 840 845  
 Arg Val Glu Leu Val Pro Thr Lys Glu Asn Asn Thr Gly Tyr Ile Asn  
 850 855 860

Ala Ser His Ile Lys Val Ser Val Ser Gly Ile Glu Trp Asp Tyr Ile  
 865 870 875 880  
 Ala Thr Gln Gly Pro Leu Gln Asn Thr Cys Gln Asp Phe Trp Gln Met  
 885 890 895  
 Val Trp Glu Gln Gly Ile Ala Ile Ile Ala Met Val Thr Ala Glu Glu  
 900 905 910  
 Glu Gly Gly Arg Glu Lys Ser Phe Arg Tyr Trp Pro Arg Leu Gly Ser  
 915 920 925  
 Arg His Asn Thr Val Thr Tyr Gly Arg Phe Lys Ile Thr Thr Arg Phe  
 930 935 940  
 Arg Thr Asp Ser Gly Cys Tyr Ala Thr Thr Gly Leu Lys Met Lys His  
 945 950 955 960  
 Leu Leu Thr Gly Gln Glu Arg Thr Val Trp His Leu Gln Tyr Thr Asp  
 965 970 975  
 Trp Pro Glu His Gly Cys Pro Glu Asp Leu Lys Gly Phe Leu Ser Tyr  
 980 985 990  
 Leu Glu Glu Ile Gln Ser Val Arg Arg His Thr Asn Ser Thr Ser Asp  
 995 1000 1005  
 Pro Gln Ser Pro Asn Pro Leu Leu Val His Cys Ser Ala Gly Val  
 1010 1015 1020  
 Gly Arg Thr Gly Val Val Ile Leu Ser Glu Ile Met Ile Ala Cys Leu  
 1025 1030 1035 1040  
 Glu His Asn Glu Val Leu Asp Ile Pro Arg Val Leu Asp Met Leu Arg  
 1045 1050 1055  
 Gln Gln Arg Met Met Leu Val Gln Thr Leu Cys Gln Tyr Thr Phe Val  
 1060 1065 1070  
 Tyr Arg Val Leu Ile Gln Val Pro Glu Lys Ala Pro Arg Leu Ile Leu  
 1075 1080 1085  
 Ser Ser Pro Gln Phe Pro Tyr Gly Ala Gln Ser Cys Glu Ala Phe Thr  
 1090 1095 1100  
 Ala  
 1105

<210> 1083  
 <211> 99  
 <212>Amino acid  
 <213> Homo sapiens  
  
 <220>.  
 <221> misc\_feature  
 <222> (1)...(99)  
 <223> X = any amino acid or stop code

<400> 1083  
 Arg Lys Gln Lys Leu Ala Glu Glu Xaa Val Glu Leu Ser Lys Leu  
 1 5 10 15  
 Ala Asp Leu Lys Asp Ala Glu Ala Val Gln Lys Phe Phe Leu Glu Glu  
 20 25 30  
 Ile Xaa Leu Gly Glu Glu Ile Leu Ala Lys Gly Val Asp His Leu Thr  
 35 40 45  
 Asn Pro Ser Ala Val Cys Gly Gln Pro Gln Trp Leu Leu Gln Val Leu  
 50 55 60  
 Gln Gln Thr Leu Pro Leu Pro Val Ile Gln Met Leu Leu Thr Lys Pro  
 65 70 75 80  
 Leu Pro Val Asn Gln Arg Leu Val Ser Ala Gly Ser Leu Ala Lys Asp  
 85 90 95  
 Asp Val Glu  
 99

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<210> 1084
<211> 206
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(206)
<223> X = any amino acid or stop code

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<400> 1084
Ser Phe Cys Leu His Glu Phe Gly Trp Leu Gly Ser Ser Pro Gln Ser
 1           5          10          15
Asp His Pro Val Pro Ala Leu Leu Gly Leu Gly Ala Phe Val His His
 20          25          30
Ser Leu Leu Gln Val His Ser Ser Pro Gly Ala Gly Pro Val Ser Phe
 35          40          45
Leu Phe Leu Gly Glu Ser Cys Ser Pro Val Asp Glu Pro Arg Cys Val
 50          55          60
Pro Ser Cys Ala Phe Phe Gly Leu Ser Cys Phe Pro Leu Leu Asn Ser
 65          70          75          80
Ala Ala Leu Glu Arg Gly Leu Phe Phe Phe Val Val Phe Phe Phe Leu
 85          90          95
Glu Ser Gly Ser Cys Gln Val Ala Arg Ala Gly Val Arg Asp Arg Asp
100         105         110
Arg Gly Ser Leu Gln Pro Pro Pro Gly Leu Lys Gln Phe Cys Leu
115         120         125
Ser Leu Pro Ser Arg Trp Asp His Arg His Pro Pro Pro Leu Arg Val
130         135         140
Pro Xaa Phe Val Phe Val Phe Leu Val Glu Leu Gly Phe His His Val
145         150         155         160
Ala Gln Ala Gly Leu Lys Leu Leu Thr Leu Ser Asp Pro Pro Ala Pro
165         170         175
Ala Ser His Ser Ala Gly Ile Thr Gly Val Ser Gln Arg Asp Gln Pro
180         185         190
Val Leu Phe Leu Arg Trp Ala Ser Cys Ser Glu Leu Val Gly
195         200         205 206

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<210> 1085
<211> 99
<212>Amino acid
<213> Homo sapiens

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<400> 1085
Glu Gly Phe Pro Gly Arg Ser Leu Ser Gly Gly Leu Cys Cys Arg Leu
 1           5          10          15
Arg Arg Arg Phe Pro Ile Asp Gly Tyr Arg Pro Arg Arg Arg Arg Arg
 20          25          30
Trp Ser Cys Cys Pro Ser Gly Val Arg Pro Val Arg Arg Met Ser Gln
 35          40          45
Lys Ser Trp Ile Glu Ser Thr Leu Thr Lys Arg Glu Cys Val Tyr Ile
 50          55          60
Ile Pro Ser Ser Lys Asp Pro His Arg Cys Leu Pro Gly Cys Gln Ile
 65          70          75          80

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Cys Gln Gln Leu Val Arg Arg Gly Phe Thr Val Leu Ala Arg Met Val  
                   85                     90                     95  
 Ser Ile Ser  
                   99

<210> 1086  
 <211> 53  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1086  
 Gln Asn Ser Thr Cys Leu Thr Ala Gln Thr His Ser Leu Leu Gln His  
   1              5                 10                     15  
 Gln Pro Leu Gln Leu Thr Thr Leu Leu Asp Gln Tyr Ile Arg Glu Gln  
   20             25                     30  
 Arg Glu Lys Asp Ser Val Met Ser Ala Asn Gly Lys Pro Asp Pro Asp  
   35             40                     45  
 Thr Val Pro Asp Ser  
   50             53

<210> 1087  
 <211> 250  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1087  
 Leu Asn Pro Trp Lys Asn Ala Leu Gln Asp Phe Cys Leu Pro Phe Leu  
   1              5                 10                     15  
 Arg Ile Thr Ser Leu Leu Gln His His Leu Phe Gly Glu Asp Leu Pro  
   20             25                     30  
 Ser Cys Gln Glu Glu Glu Glu Phe Ser Val Leu Ala Ser Cys Leu Gly  
   35             40                     45  
 Leu Leu Pro Thr Phe Tyr Gln Thr Glu His Pro Phe Ile Ser Ala Ser  
   50             55                     60  
 Cys Leu Asp Trp Pro Val Pro Ala Phe Asp Ile Ile Thr His Trp Cys  
   65             70                     75                     80  
 Phe Glu Ile Lys Ser Phe Thr Glu Arg His Ala Glu Gln Gly Lys Ala  
   85             90                     95  
 Leu Leu Ile Glu Ser Lys Trp Lys Leu Pro His Leu Leu Gln Leu  
   100            105                     110  
 Pro Glu Asn Tyr Asn Thr Ile Phe Gln Tyr Tyr His Arg Lys Thr Cys  
   115            120                     125  
 Ser Val Cys Thr Lys Val Pro Lys Asp Pro Ala Val Cys Leu Val Cys  
   130            135                     140  
 Gly Thr Phe Val Cys Leu Lys Gly Leu Cys Cys Lys Gln Gln Ser Tyr  
   145            150                     155                     160  
 Cys Glu Cys Val Leu His Ser Gln Asn Cys Gly Ala Gly Thr Gly Ile  
   165            170                     175  
 Phe Leu Leu Ile Asn Ala Ser Val Ile Ile Ile Arg Gly His Arg  
   180            185                     190  
 Phe Cys Leu Trp Gly Ser Val Tyr Leu Asp Ala His Gly Glu Glu Asp  
   195            200                     205  
 Arg Asp Leu Arg Arg Gly Lys Pro Leu Tyr Ile Cys Lys Glu Arg Tyr  
   210            215                     220

Lys Val Leu Glu Gln Gln Trp Ile Ser His Thr Phe Asp His Ile Asn							
225	230	235	240	Lys Arg Trp Gly Pro His Tyr Asn Gly Leu		245	250
235	240						
Lys Arg Trp Gly Pro His Tyr Asn Gly Leu							
245	250						

<210> 1088  
<211> 455  
<212>Amino acid  
<213> Homo sapiens

<400> 1088		
Lys Gly Gln Leu Val Asn Leu Leu Pro Pro Glu Asn Phe Pro Trp Cys		
1	5	10
Gly Gly Ser Gln Gly Pro Arg Met Leu Arg Thr Cys Tyr Val Leu Cys		
20	25	30
Ser Gln Ala Gly Pro Arg Ser Arg Gly Trp Gln Ser Leu Ser Phe Asp		
35	40	45
Gly Gly Ala Phe His Leu Lys Gly Thr Gly Glu Leu Thr Arg Ala Leu		
50	55	60
Leu Val Leu Arg Leu Cys Ala Trp Pro Pro Leu Val Thr His Gly Leu		
65	70	75
Leu Leu Gln Ala Trp Ser Arg Arg Leu Leu Gly Ser Arg Leu Ser Gly		
85	90	95
Ala Phe Leu Arg Ala Ser Val Tyr Gly Gln Phe Val Ala Gly Glu Thr		
100	105	110
Ala Glu Glu Val Lys Gly Cys Val Gln Gln Leu Arg Thr Leu Ser Leu		
115	120	125
Arg Pro Leu Leu Ala Val Pro Thr Glu Glu Pro Asp Ser Ala Ala		
130	135	140
Lys Ser Gly Glu Ala Trp Tyr Glu Gly Asn Leu Gly Ala Met Leu Arg		
145	150	155
Cys Val Asp Leu Ser Arg Gly Leu Leu Glu Pro Pro Ser Leu Ala Glu		
165	170	175
Ala Ser Leu Met Gln Leu Lys Val Thr Ala Leu Thr Ser Thr Arg Leu		
180	185	190
Cys Lys Glu Leu Ala Ser Trp Val Arg Arg Pro Gly Ala Ser Leu Glu		
195	200	205
Leu Ser Pro Glu Arg Leu Ala Glu Ala Met Asp Ser Gly Gln Asn Leu		
210	215	220
Gln Val Ser Cys Leu Asn Ala Glu Gln Asn Gln His Leu Arg Ala Ser		
225	230	235
Leu Ser Arg Leu His Arg Val Ala Gln Tyr Ala Arg Ala Gln His Val		
245	250	255
Arg Leu Leu Val Asp Ala Glu Tyr Thr Ser Leu Asn Pro Ala Leu Ser		
260	265	270
Leu Leu Val Ala Ala Leu Ala Val Arg Trp Asn Ser Pro Gly Glu Gly		
275	280	285
Gly Pro Trp Val Trp Asn Thr Tyr Gln Ala Cys Leu Lys Asp Thr Phe		
290	295	300
Glu Arg Leu Gly Arg Asp Ala Glu Ala Ala His Arg Ala Gly Leu Ala		
305	310	315
Phe Gly Val Lys Leu Val Arg Gly Ala Tyr Leu Asp Lys Glu Arg Ala		
325	330	335
Val Ala Gln Leu His Gly Met Glu Asp Pro Pro Thr Gln Ala Asp Tyr		
340	345	350
Glu Ala Thr Ser Gln Ser Tyr Ser Arg Cys Leu Glu Leu Met Leu Thr		
355	360	365
His Val Ala Arg His Gly Pro Met Cys His Leu Met Val Ala Ser His		
370	375	380

Asn	Glu	Glu	Ser	Val	Arg	Gln	Ala	Thr	Lys	Gly	Gln	Ala	Gly	Tyr	Val
385				390					395					400	
Val	Tyr	Lys	Ser	Ile	Pro	Tyr	Gly	Ser	Leu	Glu	Glu	Val	Ile	Pro	Tyr
				405					410					415	
Leu	Ile	Arg	Arg	Ala	Gln	Glu	Asn	Arg	Ser	Val	Leu	Gln	Gly	Ala	Arg
				420					425					430	
Arg	Glu	Gln	Glu	Leu	Leu	Ser	Gln	Lys	Leu	Trp	Arg	Arg	Leu	Leu	Pro
				435					440					445	
Gly	Cys	Arg	Arg	Ile	Pro	His									
				450			455								

<210> 1089  
<211> 243  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1) . . . (243)  
<223> X = any amino acid or stop code

Val	Val	Glu	Phe	Gly	Glu	Met	Ser	Thr	Ala	Arg	Ala	Pro	Glu	Gly	Leu
1						5			10					15	
Arg	Trp	Phe	Gln	Leu	Tyr	Val	His	Pro	Asp	Leu	Gln	Leu	Asn	Lys	Gln
						20			25					30	
Leu	Ile	Gln	Arg	Val	Glu	Ser	Leu	Gly	Phe	Lys	Ala	Leu	Val	Ile	Thr
						35			40					45	
Leu	Asp	Thr	Pro	Val	Cys	Gly	Asn	Arg	Arg	His	Asp	Ile	Arg	Asn	Gln
						50			55					60	
Leu	Arg	Arg	Asn	Leu	Thr	Leu	Thr	Asp	Leu	Gln	Ser	Pro	Lys	Lys	Gly
						65			70			75		80	
Asn	Ala	Ile	Pro	Tyr	Phe	Gln	Met	Thr	Ile	Ser	Thr	Ser	Leu	Cys	
						85			90					95	
Trp	Asn	Asp	Leu	Ser	Trp	Phe	Gln	Ser	Ile	Thr	Arg	Leu	Pro	Ile	Ile
						100			105					110	
Leu	Lys	Gly	Ile	Leu	Thr	Lys	Glu	Asp	Ala	Glu	Leu	Ala	Val	Lys	His
						115			120					125	
Asn	Val	Gln	Gly	Ile	Ile	Val	Ser	Asn	His	Gly	Gly	Arg	Gln	Leu	Asp
						130			135					140	
Glu	Val	Leu	Ala	Ser	Ile	Asp	Ala	Leu	Thr	Glu	Val	Gly	Ala	Ala	Glu
						145			150			155		160	
Xaa	Gly	Asn	Met	Lys	Tyr	Tyr	Leu	Asp	Ala	Gly	Val	Arg	Thr	Gly	Asn
						165			170					175	
Asp	Val	Gln	Lys	Ala	Leu	Ala	Leu	Gly	Ala	Lys	Cys	Ile	Phe	Leu	Gly
						180			185					190	
Arg	Pro	Ile	Ile	Trp	Gly	Leu	Ala	Cys	Lys	Gly	His	Gly	Val	Lys	
						195			200					205	
Glu	Val	Leu	Asn	Ile	Leu	Thr	Asn	Glu	Phe	His	Thr	Ser	Met	Ala	Leu
						210			215					220	
Thr	Gly	Cys	Arg	Ser	Val	Ala	Glu	Ile	Asn	Arg	Asn	Leu	Val	Gln	Phe
						225			230			235		240	
Ser	Arg	Leu													
						243									

<210> 1090  
<211> 90  
<212>Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(90)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1090

Phe	Phe	Leu	Arg	Trp	Ser	Phe	Thr	Leu	Leu	Pro	Arg	Leu	Glu	Cys	Gln
1				5					10				15		
Trp	Leu	Asn	Leu	Gly	Ser	Leu	Gln	Pro	Pro	Pro	Gly	Phe	Lys	Xaa	
								20	25				30		
Ser	Ser	Cys	Leu	Arg	Leu	Leu	Ser	Ser	Trp	Gly	Leu	Gln	Val	Pro	Thr
							35	40				45			
Ser	Met	Leu	Gly	Xaa	Phe	Phe	Cys	Ile	Phe	Ser	Arg	Glu	Gly	Ile	Ser
					50		55		60						
Pro	Cys	Trp	Pro	Gly	Trp	Ser	Gln	Thr	Pro	Lys	Val	Ile	His	Leu	Pro
			65		70			75					80		
Arg	Pro	Pro	Pro	Arg	Val	Leu	Arg	Leu	Gln	Ala					
					85				90						

&lt;210&gt; 1091

&lt;211&gt; 259

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(259)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1091

Leu	Leu	Cys	Phe	Val	His	Thr	Ala	Leu	Gln	Ser	Phe	Gln	Gly	Glu	Leu
1					5				10				15		
Tyr	Glu	Pro	His	Val	Val	Ile	Ala	Ile	Val	Val	Phe	Leu	Val	Lys	Leu
						20			25				30		
Gly	Ile	Cys	Lys	Xaa	Arg	Ala	Ser	Trp	Arg	Lys	Lys	Val	Thr	Leu	Val
					35			40				45			
Val	Lys	Xaa	Ser	Leu	Lys	Ile	Cys	Phe	Thr	Lys	Tyr	Gly	Ser	Cys	Tyr
						50		55			60				
His	Pro	Gly	Glu	Lys	Ser	Ser	Ser	Trp	Leu	Phe	Asn	Xaa	Arg	Met	Val
						65		70			75			80	
Asn	Asp	Cys	Leu	Ala	Thr	Ser	Cys	Ser	Asn	Arg	Ser	Phe	Val	Ile	Gln
						85			90				95		
Gln	Ile	Pro	Ser	Ser	Asn	Leu	Phe	Met	Val	Val	Val	Asp	Ser	Ser	Cys
						100			105				110		
Leu	Cys	Glu	Ser	Val	Ala	Pro	Ile	Thr	Met	Ala	Pro	Ile	Glu	Ile	Arg
						115			120			125			
Tyr	Ile	Leu	Leu	Cys	Ala	Gly	Pro	Leu	Thr	Thr	Thr	Glu	Thr	Ser	Lys
						130			135			140			
Gly	Tyr	Gln	Trp	Xaa	Gly	Asn	Leu	Gly	Glu	Lys	Tyr	Xaa	Arg	Arg	Lys
						145			150			155			160
Ile	Thr	Ser	Phe	Pro	Leu	Leu	Glu	Arg	Glu	Ser	Ser	Xaa	Glu	Ser	Cys
						165			170			175			
His	Cys	Gln	Ile	Leu	Thr	Ser	Glu	Met	Gln	Ser	Arg	Lys	Lys	Gln	Ser

Leu	Glu	Thr	Cys	Leu	Asn	Tyr	Ser	Gln	His	Asn	Glu	Ser	Leu	Lys	Cys
180				185							190				
				195			200				205				
Glw	Arg	Leu	Lys	Ala	Gln	Lys	Ile	Arg	Arg	Arg	Pro	Glu	Ser	Cys	His
210				215			220								
Gly	Phe	His	Pro	Glu	Glu	Asn	Ala	Arg	Glu	Cys	Gly	Gly	Ala	Pro	Ser
225				230			235						240		
Leu	Gln	Ala	Gln	Thr	Val	Leu	Leu	Leu	Leu	Pro	Leu	Leu	Leu	Met	Leu
	245						250						255		
Phe	Ser	Arg													
	259														

<210> 1092  
<211> 117  
<212> Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> {1}...{117}  
<223> X = any amino acid or stop code

Val	Pro	Ser	Pro	Thr	His	Asp	Pro	Lys	Pro	Ala	Glu	Ala	Pro	Met	Pro
1					5				10				15		
Ala	Xaa	Pro	Ala	Pro	Pro	Gly	Pro	Ala	Ser	Pro	Gly	Gly	Ala	Leu	Glu
					20				25				30		
Pro	Pro	Ala	Ala	Ala	Arg	Ala	Gly	Gly	Ser	Pro	Thr	Ala	Val	Arg	Ser
					35				40				45		
Ile	Leu	Thr	Lys	Glu	Arg	Arg	Fro	Glu	Gly	Tyr	Lys	Ala	Val	Trp	
					50				55				60		
Phe	Gly	Glu	Asp	Ile	Gly	Thr	Glu	Ala	Asp	Val	Val	Val	Leu	Asn	Ala
					65				70				75		80
Pro	Thr	Leu	Asp	Val	Asp	Gly	Ala	Ser	Asp	Ser	Gly	Ser	Gly	Asp	Glu
					85				90				95		
Gly	Glu	Gly	Ala	Gly	Arg	Gly	Gly	Gly	Pro	Tyr	Asp	Ala	Pro	Gly	Gly
					100				105				110		
Asp	Asp	Ser	Tyr	Ile											
	115			117											

<210> 1093  
<211> 763  
<212> Amino acid  
<213> Homo sapiens

Leu	Ile	Ser	Leu	Ala	Gly	Pro	Thr	Asp	Asp	Ile	Gln	Ser	Thr	Gly	Pro
1					5					10			15		
Gln	Val	His	Ala	Leu	Asn	Ile	Leu	Arg	Ala	Leu	Phe	Arg	Asp	Thr	Arg
					20				25				30		
Leu	Gly	Glu	Asn	Ile	Ile	Pro	Tyr	Val	Ala	Asp	Gly	Ala	Lys	Ala	Ala
					35				40				45		
Ile	Leu	Gly	Phe	Thr	Ser	Pro	Val	Trp	Ala	Val	Arg	Asn	Ser	Ser	Thr
					50				55				60		

Leu Leu Phe Ser Ala Leu Ile Thr Arg Ile Phe Gly Val Lys Arg Ala  
 65 70 75 80  
 Lys Asp Glu His Ser Lys Thr Asn Arg Met Thr Gly Arg Glu Phe Phe  
 85 90 95  
 Ser Arg Phe Pro Glu Leu Tyr Pro Phe Leu Leu Lys Gln Leu Glu Thr  
 100 105 110  
 Val Ala Asn Thr Val Asp Ser Asp Met Gly Glu Pro Asn Arg His Pro  
 115 120 125  
 Ser Met Phe Leu Leu Leu Val Leu Glu Arg Leu Tyr Ala Ser Pro  
 130 135 140  
 Met Asp Gly Thr Ser Ser Ala Leu Ser Met Gly Pro Phe Val Pro Phe  
 145 150 155 160  
 Ile Met Arg Cys Gly His Ser Pro Val Tyr His Ser Arg Glu Met Ala  
 165 170 175  
 Ala Arg Ala Leu Val Pro Phe Val Met Ile Asp His Ile Pro Asn Thr  
 180 185 190  
 Ile Arg Thr Leu Leu Ser Thr Leu Pro Ser Cys Thr Asp Gln Cys Phe  
 195 200 205  
 Arg Gln Asn His Ile His Gly Thr Leu Leu Gln Val Phe His Leu Val  
 210 215 220  
 Gln Ala Tyr Ser Asp Ser Lys His Gly Thr Asn Ser Asp Phe Gln His  
 225 230 235 240  
 Glu Leu Thr Asp Ile Thr Val Cys Thr Lys Ala Lys Leu Trp Leu Ala  
 245 250 255  
 Lys Arg Gln Asn Pro Cys Leu Val Thr Arg Ala Val Tyr Ile Asp Ile  
 260 265 270  
 Leu Phe Leu Leu Thr Cys Cys Leu Asn Arg Ser Ala Lys Asp Asn Gln  
 275 280 285  
 Pro Val Leu Glu Ser Leu Gly Phe Trp Glu Glu Val Arg Gly Ile Ile  
 290 295 300  
 Ser Gly Ser Glu Leu Ile Thr Gly Phe Pro Trp Ala Phe Lys Val Pro  
 305 310 315 320  
 Gly Leu Pro Gln Tyr Leu Gln Ser Leu Thr Arg Leu Ala Ile Ala Ala  
 325 330 335  
 Val Trp Ala Ala Ala Ala Lys Ser Gly Glu Arg Glu Thr Asn Val Pro  
 340 345 350  
 Ile Ser Phe Ser Gln Leu Leu Glu Ser Ala Phe Pro Glu Val Arg Ser  
 355 360 365  
 Leu Thr Leu Glu Ala Leu Leu Glu Lys Phe Leu Ala Ala Ser Gly  
 370 375 380  
 Leu Gly Glu Lys Gly Val Pro Pro Leu Leu Cys Asn Met Gly Glu Lys  
 385 390 395 400  
 Phe Leu Leu Leu Ala Met Lys Glu Asn His Pro Glu Cys Phe Cys Lys  
 405 410 415  
 Ile Leu Lys Ile Leu His Cys Met Asp Pro Gly Glu Trp Leu Pro Gln  
 420 425 430  
 Thr Glu His Cys Val His Leu Thr Pro Lys Glu Phe Leu Ile Trp Thr  
 435 440 445  
 Met Asp Ile Ala Ser Asn Glu Arg Ser Glu Ile Gln Ser Val Ala Leu  
 450 455 460  
 Arg Leu Ala Ser Lys Val Ile Ser His His Met Gln Thr Cys Val Glu  
 465 470 475 480  
 Asn Arg Glu Leu Ile Ala Ala Glu Leu Lys Gln Trp Val Gln Leu Val  
 485 490 495  
 Ile Leu Ser Cys Glu Asp His Leu Pro Thr Glu Ser Arg Leu Ala Val  
 500 505 510  
 Val Glu Val Leu Thr Ser Thr Pro Leu Phe Leu Thr Asn Pro His  
 515 520 525  
 Pro Ile Leu Glu Leu Gln Asp Thr Leu Ala Leu Trp Lys Cys Val Leu  
 530 535 540  
 Thr Leu Leu Gln Ser Glu Glu Gln Ala Val Arg Asp Ala Ala Thr Glu  
 545 550 555 560  
 Thr Val Thr Thr Ala Met Ser Gln Glu Asn Thr Cys Gln Ser Thr Glu  
 565 570 575

Phe Ala Phe Cys Gln Val Asp Ala Ser Ile Ala Leu Ala Leu Ala Leu  
 580 585 590  
 Ala Val Cys Asp Leu Leu Gln Gln Trp Asp Gln Leu Ala Pro Gly  
 595 600 605  
 Leu Pro Ile Leu Leu Gly Trp Leu Leu Gly Glu Ser Asp Asp Leu Val  
 610 615 620  
 Ala Cys Val Glu Ser Met His Gln Val Glu Glu Asp Tyr Leu Phe Glu  
 625 630 635 640  
 Lys Ala Glu Val Asn Phe Trp Ala Glu Thr Leu Ile Phe Val Lys Tyr  
 645 650 655  
 Leu Cys Lys His Leu Phe Cys Leu Leu Ser Lys Ser Gly Trp Arg Pro  
 660 665 670  
 Pro Ser Pro Glu Met Leu Cys His Leu Gln Arg Met Val Ser Glu Gln  
 675 680 685  
 Cys His Leu Leu Ser Gln Phe Phe Arg Glu Leu Pro Pro Ala Ala Glu  
 690 695 700  
 Phe Val Lys Thr Val Glu Phe Thr Arg Leu Arg Ile Gln Glu Glu Arg  
 705 710 715 720  
 Thr Leu Ala Cys Leu Arg Leu Leu Ala Phe Leu Glu Gly Lys Glu Gly  
 725 730 735  
 Glu Asp Thr Leu Val Leu Ser Val Trp Asp Ser Tyr Ala Glu Ser Arg  
 740 745 750  
 Gln Leu Thr Leu Pro Arg Thr Glu Ala Ala Cys  
 755 760 763

<210> 1094  
<211> 413  
<212>Amino acid  
<213> Homo sapiens

<400> 1094  
 His Ala Phe Arg Pro Ile Ala Leu Gln Arg Gly Val Ser Phe Arg Gly  
 1 5 10 15  
 Cys Ser Asn Gln Tyr Ala Glu Ser Arg Arg Leu Gln Gly Glu Ser Gly  
 20 25 30  
 Ser Arg Ala Phe Ala His Leu Met Glu Ser Leu Leu Gln His Leu Asp  
 35 40 45  
 Arg Phe Ser Glu Leu Leu Ala Val Ser Ser Thr Thr Tyr Val Ser Thr  
 50 55 60  
 Trp Asp Pro Ala Thr Val Arg Arg Ala Leu Gln Trp Ala Arg Tyr Leu  
 65 70 75 80  
 Arg His Ile His Arg Arg Phe Gly Arg His Gly Pro Ile Arg Thr Ala  
 85 90 95  
 Leu Glu Arg Arg Leu His Asn Gln Trp Arg Gln Glu Gly Phe Gly  
 100 105 110  
 Arg Gly Pro Val Pro Gly Leu Ala Asn Phe Gln Ala Leu Gly His Cys  
 115 120 125  
 Asp Val Leu Leu Ser Leu Arg Leu Leu Glu Asn Arg Ala Leu Gly Asp  
 130 135 140  
 Ala Ala Arg Tyr His Leu Val Gln Gln Leu Phe Pro Gly Pro Gly Val  
 145 150 155 160  
 Arg Asp Ala Asp Glu Glu Thr Leu Gln Glu Ser Leu Ala Arg Leu Ala  
 165 170 175  
 Arg Arg Arg Ser Ala Val His Met Leu Arg Phe Asn Gly Tyr Arg Glu  
 180 185 190  
 Asn Pro Asn Leu Gln Glu Asp Ser Leu Met Lys Thr Gln Ala Glu Leu  
 195 200 205  
 Leu Leu Glu Arg Leu Gln Glu Val Gly Lys Ala Glu Ala Glu Arg Pro  
 210 215 220

Ala Arg Phe Leu Ser Ser Leu Trp Glu Arg Leu Pro Gln Asn Asn Phe  
 225                   230                   235                   240  
 Leu Lys Val Ile Ala Val Ala Leu Leu Gln Pro Pro Leu Ser Arg Arg  
 245                   250                   255  
 Pro Gln Glu Leu Glu Pro Gly Ile His Lys Ser Pro Gly Glu Gly  
 260                   265                   270  
 Ser Gln Val Leu Val His Trp Leu Leu Gly Asn Ser Glu Val Phe Ala  
 275                   280                   285  
 Ala Phe Cys Arg Ala Leu Pro Ala Gly Leu Leu Thr Leu Val Thr Ser  
 290                   295                   300  
 Arg His Pro Ala Leu Ser Pro Val Tyr Leu Gly Leu Leu Thr Asp Trp  
 305                   310                   315                   320  
 Gly Gln Arg Leu His Tyr Asp Leu Gln Lys Gly Ile Trp Val Gly Thr  
 325                   330                   335  
 Glu Ser Gln Asp Val Pro Trp Glu Glu His Asn Arg Phe Gln Ser  
 340                   345                   350  
 Leu Cys Gln Ala Pro Pro Pro Leu Lys Asp Lys Val Leu Thr Ala Leu  
 355                   360                   365  
 Glu Thr Cys Lys Ala Gln Asp Gly Asp Phe Glu Glu Pro Gly Leu Ser  
 370                   375                   380  
 Ile Trp Thr Asp Leu Leu Ala Leu Arg Ser Gly Ala Phe Arg Lys  
 385                   390                   395                   400  
 Arg Gln Val Leu Gly Leu Ser Ala Gly Leu Ser Ser Val  
 405                   410                   413

<210> 1095  
 <211> 344  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(344)  
 <223> X = any amino acid or stop code

<400> 1095  
 Ser His Leu Ile Gln His Gln Arg Ile His Thr Xaa Glu Xaa Ala His  
 1                   5                   10                   15  
 Glu Cys Asn Glu Cys Gly Lys Ala Phe Ser Gln Thr Ser Cys Leu Ile  
 20                   25                   30  
 Gln His His Lys Met His Arg Lys Glu Lys Ser Tyr Glu Cys Asn Glu  
 35                   40                   45  
 Tyr Glu Gly Ser Phe Ser His Ser Ser Asp Leu Ile Leu Gln Gln Glu  
 50                   55                   60  
 Val Leu Thr Arg Gln Lys Ala Phe Asp Cys Asp Val Trp Glu Lys Asn  
 65                   70                   75                   80  
 Ser Ser Gln Arg Ala His Leu Val Gln His Gln Ser Ile His Thr Lys  
 85                   90                   95  
 Glu Lys Pro His Glu Cys Asn Glu Asp Gly Lys Ile Phe Asn Gln Ile  
 100                  105                  110  
 Gln Ala Leu Ile Gln His Leu Arg Val His Thr Arg Glu Lys Tyr Val  
 115                  120                  125  
 Cys Thr Ala Cys Gly Lys Ala Phe Ser His Ser Ser Ala Ile Ala Gln  
 130                  135                  140  
 His Gln Ile Ile His Thr Arg Glu Lys Pro Ser Glu Cys Asp Glu Xaa  
 145                  150                  155                  160  
 Arg Lys Gly Ile Ser Val Lys Leu Leu Ile Asp Ser Cys Arg Ile Tyr  
 165                  170                  175  
 Thr Ser Glu Lys Ser Tyr Lys Cys Ile Glu Cys Gly Lys Phe Met

180	185	190
Leu Leu Val Phe Ser Tyr Leu Ser His Ile Trp Arg Ile His Met Gly		
195	200	205
Ile Lys Phe His Cys Cys Asn Glu Cys Glu Lys Ala Ile Ser Gln Arg		
210	215	220
Asn Tyr Leu Val Xaa Tyr Gln Ile His Ala Met Gln Lys Asp Tyr Lys		
225	230	235
Cys Asn Glu Ala Cys Met Cys Val Arg Arg Phe Ser His Asn Pro Thr		
245	250	255
Leu Ile Gln His Gln Arg Ile Tyr Thr Xaa Glu Asn Leu Phe Gly Cys		
260	265	270
Ser Lys Cys Gly Arg Ser Phe Asn Arg Ser Leu Thr Ser Leu Cys His		
275	280	285
Ile Arg Ile Ser Ile Arg Arg Gln Glu Phe Asp Val Thr Gln Met Glu		
290	295	300
Lys Leu Asp Thr Thr Phe Gln Ala Ser Thr Gln His Arg Asn Asn Gly		
305	310	315
Glu Lys Ile Val Asp Tyr Leu Phe Met Lys Leu Leu Ile His Ser Pro		
325	330	335
Asn Leu Phe His Cys Thr Lys Ile		
340	344	

<210> 1096  
<211> 76  
<212>Amino acid  
<213> Homo sapiens

<400> 1096			
Ala Val Thr Leu Thr Ala Lys Ile Cys Ser Phe Thr Pro Glu Pro Ser			
1	5	10	15
Glu Thr Met Ser Pro Pro Ala Gly Thr Asn Asn Ser Arg His Ala Ala			
20	25	30	
Leu Arg Ala Val Thr Leu Pro Val Lys Val Cys Ser Phe Thr Pro Glu			
35	40	45	
Pro Ala Arg Ser Arg Thr His Gln Lys Glu Glu Thr Pro Asn Thr Ser			
50	55	60	
Glu His Gln Lys Glu Gln Thr Pro Glu Ala Pro Pro			
65	70	75	76

<210> 1097  
<211> 1462  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(1462)  
<223> X = any amino acid or stop code

<400> 1097			
Met Ala Tyr Ser Trp Gln Thr Asp Pro Asn Pro Asn Glu Ser His Glu			
1	5	10	15
Lys Gln Tyr Glu His Gln Glu Phe Leu Phe Val Asn Gln Pro His Ser			
20	25	30	

Ser Ser Gln Val Ser Leu Gly Phe Asp Gln Ile Val Asp Glu Ile Ser  
     35                  40                  45  
 Gly Lys Ile Pro His Tyr Ser Glu Ile Asp Glu Asn Thr Phe Phe  
     50                  55                  60  
 Val Pro Thr Ala Pro Lys Trp Asp Ser Thr Gly His Ser Leu Asn Glu  
     65                  70                  75                  80  
 Ala His Gln Ile Ser Leu Asn Glu Phe Thr Ser Lys Ser Arg Glu Leu  
     85                  90                  95  
 Ser Trp His Gln Val Ser Lys Ala Pro Ala Ile Gly Phe Ser Pro Ser  
     100                 105                 110  
 Val Leu Pro Lys Pro Gln Asn Thr Asn Lys Glu Cys Ser Trp Gly Ser  
     115                 120                 125  
 Pro Ile Gly Lys His His Gly Ala Asp Asp Ser Arg Phe Ser Ile Leu  
     130                 135                 140  
 Ala Pro Ser Phe Thr Ser Leu Asp Lys Ile Asn Leu Glu Lys Glu Leu  
     145                 150                 155                 160  
 Glu Asn Glu Asn His Asn Tyr His Ile Gly Phe Glu Ser Ser Ile Pro  
     165                 170                 175  
 Pro Thr Asn Ser Ser Phe Ser Ser Asp Phe Met Pro Lys Glu Glu Asn  
     180                 185                 190  
 Lys Arg Ser Gly His Val Asn Ile Val Glu Pro Ser Leu Met Leu Leu  
     195                 200                 205  
 Lys Gly Ser Leu Gln Pro Gly Met Trp Glu Ser Thr Trp Gln Lys Asn  
     210                 215                 220  
 Ile Glu Ser Ile Gly Cys Ser Ile Gln Leu Val Glu Val Pro Gln Ser  
     225                 230                 235                 240  
 Ser Asn Thr Ser Leu Ala Ser Phe Cys Asn Lys Val Lys Lys Ile Arg  
     245                 250                 255  
 Glu Arg Tyr His Ala Ala Asp Val Asn Phe Asn Ser Gly Lys Ile Trp  
     260                 265                 270  
 Ser Thr Thr Ala Phe Pro Tyr Gln Leu Phe Ser Lys Thr Lys Phe  
     275                 280                 285  
 Asn Ile His Ile Phe Ile Asp Asn Ser Thr Gln Pro Leu His Phe Met  
     290                 295                 300  
 Pro Cys Ala Asn Tyr Leu Val Lys Asp Leu Ile Ala Glu Ile Leu His  
     305                 310                 315                 320  
 Phe Cys Thr Asn Asp Gln Leu Leu Pro Lys Asp His Ile Leu Ser Val  
     325                 330                 335  
 Trp Gly Ser Glu Glu Phe Leu Gln Asn Asp His Cys Leu Gly Ser His  
     340                 345                 350  
 Lys Met Phe Gln Lys Asp Lys Ser Val Ile Gln Leu His Leu Gln Lys  
     355                 360                 365  
 Ser Arg Glu Ala Pro Gly Lys Leu Ser Arg Lys His Glu Glu Asp His  
     370                 375                 380  
 Ser Gln Phe Tyr Leu Asn Gln Leu Leu Glu Phe Met His Ile Trp Lys  
     385                 390                 395                 400  
 Val Ser Arg Gln Cys Leu Leu Thr Leu Ile Arg Lys Tyr Asp Phe His  
     405                 410                 415  
 Leu Lys Tyr Leu Leu Lys Thr Gln Glu Asn Val Tyr Asn Ile Ile Glu  
     420                 425                 430  
 Glu Val Lys Lys Ile Cys Ser Val Leu Gly Cys Val Glu Thr Lys Gln  
     435                 440                 445  
 Ile Thr Asp Ala Val Asn Glu Leu Ser Leu Ile Leu Gln Arg Lys Gly  
     450                 455                 460  
 Glu Asn Phe Tyr Gln Ser Ser Glu Thr Ser Ala Lys Gly Leu Ile Glu  
     465                 470                 475                 480  
 Lys Val Thr Thr Glu Leu Ser Thr Ser Ile Tyr Gln Leu Ile Asn Val  
     485                 490                 495  
 Tyr Cys Asn Ser Phe Tyr Ala Asp Phe Gln Pro Val Asn Val Pro Arg  
     500                 505                 510  
 Cys Thr Ser Tyr Leu Asn Pro Gly Leu Pro Ser His Leu Ser Phe Thr  
     515                 520                 525  
 Val Tyr Ala Ala His Asn Ile Pro Glu Thr Trp Val His Arg Ile Asn  
     530                 535                 540

Phe Pro Leu Glu Ile Lys Ser Leu Pro Arg Glu Ser Met Leu Thr Val  
 545 550 555 560  
 Lys Leu Phe Gly Ile Ala Cys Ala Thr Asn Asn Ala Asn Leu Leu Ala  
 565 570 575  
 Trp Thr Cys Leu Pro Leu Phe Pro Lys Glu Lys Ser Ile Leu Gly Ser  
 580 585 590  
 Met Leu Phe Ser Met Thr Leu Gln Ser Glu Pro Pro Val Glu Met Ile  
 595 600 605  
 Thr Pro Gly Val Trp Asp Val Ser Gln Pro Ser Pro Val Thr Leu Gln  
 610 615 620  
 Ile Asp Phe Pro Ala Thr Gly Trp Glu Tyr Met Lys Pro Asp Ser Glu  
 625 630 635 640  
 Glu Asn Arg Ser Asn Leu Glu Glu Pro Leu Lys Glu Cys Ile Lys His  
 645 650 655  
 Ile Ala Arg Leu Ser Gln Lys Gln Thr Pro Leu Leu Leu Ser Glu Glu  
 660 665 670  
 Lys Lys Arg Tyr Leu Trp Phe Tyr Arg Phe Tyr Cys Asn Asn Glu Asn  
 675 680 685  
 Cys Ser Leu Pro Leu Val Leu Gly Ser Ala Pro Gly Trp Asp Glu Arg  
 690 695 700  
 Thr Val Ser Glu Met His Thr Ile Leu Arg Arg Trp Thr Phe Ser Gln  
 705 710 715 720  
 Pro Leu Glu Ala Leu Leu Leu Thr Ser Ser Phe Pro Asp Gln Glu  
 725 730 735  
 Ile Arg Lys Val Ala Val Gln Gln Leu Asp Asn Leu Leu Asn Asp Glu  
 740 745 750  
 Leu Leu Glu Tyr Leu Pro Gln Leu Val Gln Ala Val Lys Phe Glu Trp  
 755 760 765  
 Asn Leu Glu Ser Pro Leu Val Gln Leu Leu Leu His Arg Ser Leu Gln  
 770 775 780  
 Ser Ile Gln Val Ala His Arg Leu Tyr Trp Leu Leu Lys Asn Ala Glu  
 785 790 795 800  
 Asn Glu Ala Tyr Phe Lys Ser Trp Tyr Gln Lys Leu Leu Ala Ala Leu  
 805 810 815  
 Gln Phe Cys Ala Gly Lys Ala Leu Asn Asp Glu Phe Ser Lys Glu Gln  
 820 825 830  
 Lys Leu Ile Lys Ile Leu Gly Asp Ile Gly Glu Arg Val Lys Ser Ala  
 835 840 845  
 Ser Asp His Gln Arg Gln Glu Val Leu Lys Glu Ile Gly Arg Leu  
 850 855 860  
 Glu Glu Phe Phe Gln Asp Val Asn Thr Cys His Leu Pro Leu Asn Pro  
 865 870 875 880  
 Ala Leu Cys Ile Lys Gly Ile Asp His Asp Ala Cys Ser Tyr Phe Thr  
 885 890 895  
 Ser Asn Ala Leu Pro Leu Lys Ile Thr Phe Ile Asn Ala Asn Leu Met  
 900 905 910  
 Gly Lys Asn Ile Ser Ile Ile Phe Lys Ala Gly Asp Asp Leu Arg Gln  
 915 920 925  
 Asp Met Leu Val Leu Gln Leu Ile Gln Val Met Asp Asn Ile Trp Leu  
 930 935 940  
 Gln Glu Gly Leu Asp Met Gln Met Ile Ile Tyr Arg Cys Leu Ser Thr  
 945 950 955 960  
 Gly Lys Asp Gln Arg Leu Val Gln Met Val Pro Asp Ala Val Thr Leu  
 965 970 975  
 Ala Lys Ile His Arg His Ser Gly Leu Ile Gly Pro Leu Lys Glu Asn  
 980 985 990  
 Thr Ile Lys Lys Trp Phe Ser Gln His Asn His Leu Lys Ala Asp Tyr  
 995 1000 1005  
 Glu Lys Ala Leu Arg Asn Phe Phe Tyr Ser Cys Ala Gly Trp Cys Val  
 1010 1015 1020  
 Val Thr Phe Ile Leu Gly Val Cys Asp Arg His Asn Asp Asn Ile Met  
 1025 1030 1035 1040  
 Leu Thr Lys Ser Gly His Met Phe His Ile Asp Phe Gly Lys Phe Leu  
 1045 1050 1055

Gly His Ala Gln Thr Phe Gly Gly Ile Lys Arg Asp Arg Ala Pro Phe  
     1060                         1065                         1070  
 Ile Phe Thr Ser Glu Met Glu Tyr Phe Ile Thr Glu Gly Gly Lys Asn  
     1075                         1080                         1085  
 Pro Gln His Phe Gln Asp Phe Val Glu Leu Cys Cys Arg Ala Tyr Asn  
     1090                         1095                         1100  
 Ile Ile Arg Lys His Ser Gln Leu Leu Leu Asn Leu Leu Glu Met Met  
     1105                         1110                         1115                         1120  
 Leu Tyr Ala Gly Leu Pro Glu Leu Ser Gly Ile Gln Asp Leu Lys Tyr  
     1125                         1130                         1135  
 Val Tyr Asn Asn Leu Arg Pro Gln Asp Thr Asp Leu Glu Ala Thr Ser  
     1140                         1145                         1150  
 His Phe Thr Lys Lys Ile Lys Glu Ser Leu Glu Cys Phe Pro Val Lys  
     1155                         1160                         1165  
 Leu Asn Asn Leu Ile His Thr Leu Ala Gln Met Ser Ala Ile Ser Pro  
     1170                         1175                         1180  
 Ala Lys Ser Thr Ser Gln Thr Phe Pro Gln Glu Ser Cys Leu Leu Ser  
     1185                         1190                         1195                         1200  
 Thr Thr Arg Ser Ile Glu Arg Ala Thr Ile Leu Gly Phe Ser Lys Lys  
     1205                         1210                         1215  
 Ser Ser Asn Leu Tyr Leu Ile Gln Val Thr His Ser Asn Asn Glu Thr  
     1220                         1225                         1230  
 Ser Leu Thr Glu Lys Ser Phe Glu Gln Phe Ser Lys Leu His Ser Gln  
     1235                         1240                         1245  
 Leu Gln Lys Gln Phe Ala Ser Leu Thr Leu Pro Glu Phe Pro His Trp  
     1250                         1255                         1260  
 Trp His Leu Pro Phe Thr Asn Ser Asp His Arg Arg Phe Arg Asp Leu  
     1265                         1270                         1275                         1280  
 Asn His Tyr Met Glu Gln Ile Leu Asn Val Ser His Glu Val Thr Asn  
     1285                         1290                         1295  
 Ser Asp Cys Val Leu Ser Phe Leu Ser Glu Ala Gly Gln Gln Thr  
     1300                         1305                         1310  
 Val Glu Glu Ser Ser Pro Val Tyr Leu Gly Glu Lys Phe Pro Asp Lys  
     1315                         1320                         1325  
 Lys Pro Lys Val Gln Leu Val Ile Ser Tyr Glu Asp Val Lys Leu Thr  
     1330                         1335                         1340  
 Ile Leu Val Lys His Met Lys Asn Ile His Leu Pro Asp Gly Ser Ala  
     1345                         1350                         1355                         1360  
 Pro Ser Ala His Val Glu Phe Tyr Leu Leu Pro Tyr Pro Ser Glu Val  
     1365                         1370                         1375  
 Arg Arg Arg Lys Thr Lys Ser Val Pro Lys Cys Thr Asp Pro Thr Tyr  
     1380                         1385                         1390  
 Asn Glu Ile Val Val Tyr Asp Glu Val Thr Glu Leu Gln Gly His Val  
     1395                         1400                         1405  
 Leu Met Leu Ile Val Lys Ser Lys Thr Val Phe Val Gly Ala Ile Asn  
     1410                         1415                         1420  
 Ile Arg Leu Cys Ser Val Pro Leu Asp Lys Glu Lys Trp Tyr Pro Leu  
     1425                         1430                         1435                         1440  
 Gly Asn Ser Ile Ile Xaa Pro Leu Leu Leu Phe Tyr Thr Ser Asn Phe  
     1445                         1450                         1455  
 Met Gln Ser Val Leu His  
     1460                         1462

<210> 1098  
<211> 111  
<212> Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(111)  
<223> X = any amino acid or stop code

<400> 1098  
 Phe Phe Leu Arg Trp Ser Leu Asp Ser Val Thr Gln Ala Gly Val Gln  
 1 5 10 15  
 Ser His Asp Leu Ser Ser Leu Gln Pro Pro Pro Pro Gly Phe Lys Gln  
 20 25 30  
 Ser Ser Leu Phe Gly Leu Pro Ser Ser Trp Glu Xaa Arg Trp Val Pro  
 35 40 45  
 Pro Cys Pro Ala Asn Phe Phe Val Phe Leu Val Glu Thr Gly Phe Arg  
 50 55 60  
 His Val Gly Gln Ala Gly Leu Glu Leu Leu Thr Ser Asn Asp Leu Pro  
 65 70 75 80  
 Val Ser Ala Cys Gln Ser Ala Gly Ile Thr Gly Val Thr Thr Val Pro  
 85 90 95  
 Gln Arg Lys Ser Met Ile Leu Tyr Glu Val Thr Ile Cys Tyr Pro  
 100 105 110 111

<210> 1099  
<211> 1070  
<212> Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(1070)  
<223> X = any amino acid or stop code

<400> 1099  
 Phe Val Arg Glu Ile Arg Gly Pro Ala Val Pro Arg Leu Thr Ser Ala  
 1 5 10 15  
 Glu Asp Arg His Arg His Gly Pro His Ala His Ser Pro Glu Leu Gln  
 20 25 30  
 Arg Thr Gly Arg Asp Tyr Ser Leu Asp Tyr Leu Pro Phe Arg Leu Trp  
 35 40 45  
 Val Gly Ile Trp Val Ala Thr Phe Cys Leu Val Leu Val Ala Thr Glu  
 50 55 60  
 Ala Ser Val Leu Val Arg Tyr Phe Thr Arg Phe Thr Glu Glu Gly Phe  
 65 70 75 80  
 Cys Ala Leu Ile Ser Leu Ile Phe Ile Tyr Asp Ala Val Gly Lys Met  
 85 90 95  
 Leu Asn Leu Thr His Thr Tyr Pro Ile Gln Lys Pro Gly Ser Ser Ala  
 100 105 110  
 Tyr Gly Cys Leu Cys Gln Tyr Pro Gly Pro Gly Gly Asn Glu Ser Gln  
 115 120 125  
 Trp Ile Arg Thr Arg Pro Lys Asp Arg Asp Ile Val Ser Met Asp  
 130 135 140  
 Leu Gly Leu Ile Asn Ala Ser Leu Leu Pro Pro Glu Cys Thr Arg  
 145 150 155 160  
 Gln Gly Gly His Pro Arg Gly Pro Gly Cys His Thr Val Pro Asp Ile  
 165 170 175  
 Ala Phe Phe Ser Leu Leu Leu Phe Leu Thr Ser Phe Phe Phe Ala Met  
 180 185 190  
 Ala Leu Lys Cys Val Lys Thr Ser Arg Phe Phe Pro Ser Val Val Arg  
 195 200 205  
 Lys Gly Leu Ser Asp Phe Ser Ser Val Leu Ala Ile Leu Leu Gly Cys  
 210 215 220

Gly Leu Asp Ala Phe Leu Gly Leu Ala Thr Pro Lys Leu Met Val Pro  
 225 230 235 240  
 Arg Glu Phe Lys Pro Thr Leu Pro Gly Arg Gly Trp Leu Val Ser Pro  
 245 250 255  
 Phe Gly Ala Asn Pro Trp Trp Trp Ser Val Ala Ala Ala Leu Pro Ala  
 260 265 270  
 Leu Leu Leu Ser Ile Leu Ile Phe Met Asp Gln Gln Ile Thr Ala Val  
 275 280 285  
 Ile Leu Asn Arg Met Glu Tyr Arg Leu Gln Lys Gly Ala Gly Phe His  
 290 295 300  
 Leu Asp Leu Phe Trp Val Ala Val Leu Met Leu Leu Thr Ser Ala Leu  
 305 310 315 320  
 Gly Leu Pro Trp Tyr Val Ser Ala Thr Val Ile Ser Leu Ala His Met  
 325 330 335  
 Asp Ser Leu Arg Arg Glu Ser Arg Ala Cys Ala Pro Gly Glu Arg Pro  
 340 345 350  
 Asn Phe Leu Gly Ile Arg Glu Gln Arg Leu Thr Gly Leu Val Val Phe  
 355 360 365  
 Ile Leu Thr Gly Ala Ser Ile Phe Leu Ala Pro Val Leu Lys Phe Ile  
 370 375 380  
 Pro Met Pro Val Leu Tyr Gly Ile Phe Leu Tyr Met Gly Val Ala Ala  
 385 390 395 400  
 Leu Ser Ser Ile Gln Phe Thr Asn Arg Val Lys Leu Leu Leu Met Pro  
 405 410 415  
 Ala Lys His Gln Pro Asp Leu Leu Leu Arg His Val Pro Leu Thr  
 420 425 430  
 Arg Val His Leu Phe Thr Ala Ile Ser Phe Ala Cys Leu Gly Leu Leu  
 435 440 445  
 Trp Ile Ile Lys Ser Thr Pro Ala Ala Ile Ile Phe Pro Leu Met Leu  
 450 455 460  
 Leu Gly Leu Val Gly Val Arg Lys Ala Leu Glu Arg Val Phe Ser Pro  
 465 470 475 480  
 Gln Glu Leu Leu Trp Leu Asp Glu Leu Met Pro Glu Glu Glu Arg Ser  
 485 490 495  
 Ile Pro Glu Lys Gly Leu Glu Pro Glu His Ser Phe Ser Gly Ser Asp  
 500 505 510  
 Ser Glu Asp Ser Glu Leu Met Tyr Gln Pro Lys Ala Pro Glu Ile Asn  
 515 520 525  
 Ile Ser Val Asn Xaa Leu Glu Xaa Glu Phe Val Arg Glu Ile Arg Gly  
 530 535 540  
 Pro Ala Val Pro Arg Leu Thr Ser Ala Glu Asp Arg His Arg His Gly  
 545 550 555 560  
 Pro His Ala His Ser Pro Glu Leu Gln Arg Thr Gly Arg Asp Tyr Ser  
 565 570 575  
 Leu Asp Tyr Leu Pro Phe Arg Leu Trp Val Gly Ile Trp Val Ala Thr  
 580 585 590  
 Phe Cys Leu Val Leu Val Ala Thr Glu Ala Ser Val Leu Val Arg Tyr  
 595 600 605  
 Phe Thr Arg Phe Thr Glu Glu Phe Cys Ala Leu Ile Ser Leu Ile  
 610 615 620  
 Phe Ile Tyr Asp Ala Val Gly Lys Met Leu Asn Leu Thr His Thr Tyr  
 625 630 635 640  
 Pro Ile Gln Lys Pro Gly Ser Ser Ala Tyr Gly Cys Leu Cys Gln Tyr  
 645 650 655  
 Pro Gly Pro Gly Gly Asn Glu Ser Gln Trp Ile Arg Thr Arg Pro Lys  
 660 665 670  
 Asp Arg Asp Asp Ile Val Ser Met Asp Leu Gly Leu Ile Asn Ala Ser  
 675 680 685  
 Leu Leu Pro Pro Pro Glu Cys Thr Arg Gln Gly Gly His Pro Arg Gly  
 690 695 700  
 Pro Gly Cys His Thr Val Pro Asp Ile Ala Phe Phe Ser Leu Leu Leu  
 705 710 715 720  
 Phe Leu Thr Ser Phe Phe Phe Ala Met Ala Leu Lys Cys Val Lys Thr  
 725 730 735

Ser Arg Phe Pro Ser Val Val Arg Lys Gly Leu Ser Asp Phe Ser  
 740 745 750  
 Ser Val Leu Ala Ile Leu Leu Gly Cys Gly Leu Asp Ala Phe Leu Gly  
 755 760 765  
 Leu Ala Thr Pro Lys Leu Met Val Pro Arg Glu Phe Lys Pro Thr Leu  
 770 775 780  
 Pro Gly Arg Gly Trp Leu Val Ser Pro Phe Gly Ala Asn Pro Trp Trp  
 785 790 795 800  
 Trp Ser Val Ala Ala Leu Pro Ala Leu Leu Ser Ile Leu Ile  
 805 810 815  
 Phe Met Asp Gln Ile Thr Ala Val Ile Leu Asn Arg Met Glu Tyr  
 820 825 830  
 Arg Leu Gln Lys Gly Ala Gly Phe His Leu Asp Leu Phe Cys Val Ala  
 835 840 845  
 Val Leu Met Leu Leu Thr Ser Ala Leu Gly Leu Pro Trp Tyr Val Ser  
 850 855 860  
 Ala Thr Val Ile Ser Leu Ala His Met Asp Ser Leu Arg Arg Glu Ser  
 865 870 875 880  
 Arg Ala Cys Ala Pro Gly Glu Arg Pro Asn Phe Leu Gly Ile Arg Glu  
 885 890 895  
 Gln Arg Leu Thr Gly Leu Val Val Phe Ile Leu Thr Gly Ala Ser Ile  
 900 905 910  
 Phe Leu Ala Pro Val Leu Lys Phe Ile Pro Met Pro Val Leu Tyr Gly  
 915 920 925  
 Ile Phe Leu Tyr Met Gly Val Ala Ala Leu Ser Ser Ile Gln Phe Thr  
 930 935 940  
 Asn Arg Val Lys Leu Leu Leu Asp Ala Ser Lys Thr Pro Ala Arg Pro  
 945 950 955 960  
 Ala Thr Leu Ala Ala Cys Ala Ser Asp Gln Gly Pro Pro Leu His Ser  
 965 970 975  
 His Gln Leu Cys Pro Val Trp Gly Cys Phe Gly Ile Ile Lys Ser Thr  
 980 985 990  
 Pro Ala Ala Ile Ile Phe Pro Leu Met Leu Leu Gly Leu Val Gly Val  
 995 1000 1005  
 Arg Lys Ala Leu Glu Arg Val Phe Ser Pro Gln Glu Leu Leu Trp Leu  
 1010 1015 1020  
 Asp Glu Leu Met Pro Glu Glu Arg Ser Ile Pro Glu Lys Gly Leu  
 1025 1030 1035 1040  
 Glu Pro Glu His Ser Phe Ser Gly Ser Asp Ser Glu Asp Ser Glu Leu  
 1045 1050 1055  
 Met Tyr Gln Pro Lys Ala Pro Glu Ile Asn Ile Ser Val Asn  
 1060 1065 1070

<210> 1100  
 <211> 875  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(875)  
 <223> X = any amino acid or stop code

<400> 1100  
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 1 5 10 15  
 Asp Gly Gly Gly Gly Gly Gly Ala Ala Asn Pro Ala Gly Gly Asp  
 20 25 30  
 Ala Ala Ala Ala Gly Asp Glu Glu Arg Lys Val Gly Leu Ala Pro Gly

Asp Val Glu Gln Val Val	35	40	45	
Thr Leu Ala Leu Gly Ala Gly Ala Asp Lys Asp				
50	55	60		
Gly Thr Leu Leu Leu Glu Gly Gly Arg Asp Glu Gly Gln Arg Arg	65	70	75	80
Thr Pro Gln Gly Ile Gly Leu Leu Ala Lys Thr Pro Leu Ser Arg Pro				
85	90	95		
Val Lys Arg Asn Asn Ala Lys Tyr Arg Arg Ile Gln Thr Leu Ile Tyr	100	105	110	
115	120	125		
Asp Ala Leu Glu Arg Pro Arg Gly Trp Ala Leu Leu Tyr His Ala Leu				
130	135	140		
Phe Leu Ile Val Leu Gly Cys Leu Ile Leu Ala Val Leu Thr Thr	145	150	155	160
165	170	175		
Ala Ala Gly Cys Cys Arg Tyr Lys Gly Trp Arg Gly Arg Leu Lys				
180	185	190		
Phe Ala Arg Lys Pro Leu Cys Met Leu Asp Ile Phe Val Leu Ile Ala	195	200	205	
210	215	220		
Ser Val Pro Val Val Ala Val Gly Asn Gln Gly Asn Val Leu Ala Thr				
225	230	235	240	
Gly Pro Gly Glu Gly Gly Thr Trp Lys Leu Leu Gly Ser Ala Ile Cys	245	250	255	
Ala His Ser Lys Glu Leu Ile Thr Ala Trp Tyr Ile Gly Phe Leu Thr	260	265	270	
Leu Ile Leu Ser Ser Phe Leu Val Tyr Leu Val Glu Lys Asp Val Pro	275	280	285	
290	295	300		
Glu Val Asp Ala Gln Gly Glu Glu Met Lys Glu Glu Phe Glu Thr Tyr				
305	310	315	320	
Gly Asp Lys Thr Pro Lys Thr Trp Glu Gly Arg Leu Ile Ala Ala Thr	325	330	335	
Phe Ser Leu Ile Gly Val Ser Phe Phe Ala Leu Pro Ala Gly Ile Leu				
340	345	350		
Gly Ser Gly Leu Ala Leu Lys Val Gln Glu Gln His Arg Gln Lys His	355	360	365	
Phe Glu Lys Arg Arg Lys Pro Ala Ala Glu Leu Ile Gln Ala Ala Trp	370	375	380	
Arg Tyr Tyr Ala Thr Asn Pro Asn Arg Ile Asp Leu Val Ala Thr Trp	385	390	395	400
405	410	415		
Leu Glu Ala Ala Ser Ser Gln Lys Leu Gly Leu Leu Asp Arg Val Arg	420	425	430	
435	440	445		
Leu Asn Val Asp Ala Ile Glu Glu Ser Pro Ser Lys Glu Pro Lys Pro	450	455	460	
465	470	475	480	
Ala Tyr Ala Phe Trp Gln Ser Ser Glu Asp Ala Gly Thr Gly Asp Pro	485	490	495	
Met Ala Glu Asp Arg Gly Tyr Gly Asn Asp Phe Pro Ile Glu Asp Met	500	505	510	
Ile Pro Thr Leu Lys Ala Ala Ile Arg Ala Val Arg Ile Leu Gln Phe	515	520	525	
Arg Leu Tyr Lys Lys Lys Phe Lys Glu Thr Leu Arg Pro Tyr Asp Val	530	535	540	
Lys Asp Val Ile Glu Gln Tyr Ser Ala Gly His Leu Asp Met Leu Ser				

545	550	555	560
Arg Ile Lys Tyr Leu Gln Thr Arg Ile Asp Met Ile Phe Thr Pro Gly	565	570	575
Pro Pro Ser Thr Pro Lys His Lys Lys Ser Gln Lys Gly Ser Ala Phe	580	585	590
Thr Phe Pro Ser Gln Gln Ser Pro Arg Asn Glu Pro Tyr Val Ala Arg	595	600	605
Pro Ser Thr Ser Glu Ile Glu Asp Gln Arg His Xaa Trp Gly Lys Phe	610	615	620
Val Lys Ser Leu Lys Gly Lys Val Gln Gly Leu Gly Arg Lys Leu Asp	625	630	635
Phe Leu Val Asp Met His Met Gln His Met Glu Arg Leu Gln Val Gln	640	645	650
Val Thr Glu Tyr Tyr Pro Thr Lys Gly Thr Ser Ser Pro Ala Glu Ala	655	660	665
Glu Lys Lys Glu Asp Asn Arg Tyr Ser Asp Leu Lys Thr Ile Ile Cys	670	675	680
Asn Tyr Ser Glu Thr Gly Pro Pro Glu Pro Pro Tyr Ser Phe His Gln	685	690	695
Val Thr Ile Asp Lys Val Ser Pro Tyr Gly Phe Phe Ala His Asp Pro	700	705	710
Val Asn Leu Pro Arg Gly Gly Pro Ser Ser Gly Lys Val Gln Ala Thr	715	720	725
Pro Pro Ser Ser Ala Thr Thr Tyr Val Glu Arg Pro Thr Val Leu Pro	730	735	740
Ile Leu Thr Leu Leu Asp Ser Arg Val Ser Cys His Ser Gln Ala Asp	745	750	755
Leu Gln Gly Pro Tyr Ser Asp Arg Ile Ser Pro Arg Gln Arg Arg Ser	760	765	770
Ile Thr Arg Asp Ser Asp Thr Pro Leu Ser Leu Met Ser Val Asn His	775	780	785
Glu Glu Leu Glu Arg Ser Pro Ser Gly Phe Ser Ile Ser Gln Asp Arg	795	800	805
Asp Asp Tyr Val Phe Gly Pro Asn Gly Gly Ser Ser Trp Met Arg Glu	810	815	820
Lys Arg Tyr Leu Ala Glu Gly Glu Thr Asp Thr Asp Thr Asp Pro Phe	825	830	835
Thr Pro Ser Gly Ser Met Pro Leu Ser Ser Thr Gly Asp Gly Ile Ser	845	850	855
Asp Ser Val Trp Thr Pro Ser Asn Lys Pro Ile	860	865	870
			875

&lt;210&gt; 1101

&lt;211&gt; 3530

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; {1}...(3530)

&lt;223&gt; X = any amino acid or stop code

<400> 1101				
Arg Thr Arg Gly Ile Ile Glu Phe Asp Pro Lys Tyr Thr Ala Phe Glu	1	5	10	15
Val Glu Glu Asp Val Gly Leu Ile Met Ile Pro Val Val Arg Leu His	20	25	30	
Gly Thr Tyr Gly Tyr Val Thr Ala Asp Phe Ile Ser Gln Ser Ser Ser	35	40	45	

Ala Ser Pro Gly Gly Val Asp Tyr Ile Leu His Gly Ser Thr Val Thr  
   50                         55                         60  
 Phe Gln His Gly Gln Asn Leu Ser Phe Ile Asn Ile Ser Ile Ile Asp  
   65                         70                         75                         80  
 Asp Asn Glu Ser Glu Phe Glu Glu Pro Ile Glu Ile Leu Leu Thr Gly  
   85                         90                         95  
 Ala Thr Gly Gly Ala Val Leu Gly Arg His Leu Val Ser Arg Ile Ile  
   100                         105                         110  
 Ile Ala Lys Ser Asp Ser Pro Phe Gly Val Ile Arg Phe Leu Asn Gln  
   115                         120                         125  
 Ser Lys Ile Ser Ile Ala Asn Pro Asn Ser Thr Met Ile Leu Ser Leu  
   130                         135                         140  
 Val Leu Glu Arg Thr Gly Gly Leu Leu Gly Glu Ile Gln Val Asn Trp  
   145                         150                         155                         160  
 Glu Thr Val Gly Pro Asn Ser Gln Glu Ala Leu Leu Pro Gln Asn Arg  
   165                         170                         175  
 Asp Ile Ala Asp Pro Val Ser Gly Leu Phe Tyr Phe Gly Glu Gly Glu  
   180                         185                         190  
 Gly Gly Val Arg Thr Ile Ile Leu Thr Ile Tyr Pro His Glu Glu Ile  
   195                         200                         205  
 Glu Val Glu Glu Thr Phe Ile Ile Lys Leu His Leu Val Lys Gly Glu  
   210                         215                         220  
 Ala Lys Leu Asp Ser Arg Ala Lys Asp Val Thr Leu Thr Ile Gln Glu  
   225                         230                         235                         240  
 Phe Gly Asp Pro Asn Gly Val Val Gln Phe Ala Pro Glu Thr Leu Ser  
   245                         250                         255  
 Lys Lys Thr Tyr Ser Glu Pro Leu Ala Leu Glu Gly Pro Leu Leu Ile  
   260                         265                         270  
 Thr Phe Phe Val Arg Arg Val Lys Gly Thr Phe Gly Glu Ile Met Val  
   275                         280                         285  
 Tyr Trp Glu Leu Ser Ser Glu Phe Asp Ile Thr Glu Asp Phe Leu Ser  
   290                         295                         300  
 Thr Ser Gly Phe Phe Thr Ile Ala Asp Gly Glu Ser Glu Ala Ser Phe  
   305                         310                         315                         320  
 Asp Val His Leu Leu Pro Asp Glu Val Pro Glu Ile Glu Glu Asp Tyr  
   325                         330                         335  
 Val Ile Gln Leu Val Ser Val Glu Gly Ala Glu Leu Asp Leu Glu  
   340                         345                         350  
 Lys Ser Ile Thr Trp Phe Ser Val Tyr Ala Asn Asp Asp Pro His Gly  
   355                         360                         365  
 Val Phe Ala Leu Tyr Ser Asp Arg Gln Ser Ile Leu Ile Gly Gln Asn  
   370                         375                         380  
 Leu Ile Arg Ser Ile Gln Ile Asn Ile Thr Arg Leu Ala Gly Thr Phe  
   385                         390                         395                         400  
 Gly Asp Val Ala Val Gly Leu Arg Ile Ser Ser Asp His Lys Glu Gln  
   405                         410                         415  
 Pro Ile Val Thr Glu Asn Ala Glu Arg Gln Leu Val Val Lys Asp Gly  
   420                         425                         430  
 Ala Thr Lys Val Asp Val Val Pro Ile Lys Asn Gln Val Phe Leu  
   435                         440                         445  
 Ser Leu Gly Ser Asn Phe Thr Leu Gln Leu Val Thr Val Met Leu Val  
   450                         455                         460  
 Gly Gly Arg Phe Tyr Gly Met Pro Thr Ile Leu Gln Glu Ala Lys Ser  
   465                         470                         475                         480  
 Ala Val Leu Pro Val Ser Glu Lys Ala Ala Asn Ser Gln Val Gly Phe  
   485                         490                         495  
 Glu Ser Thr Ala Phe Gln Leu Met Asn Ile Thr Ala Gly Thr Ser His  
   500                         505                         510  
 Val Met Ile Ser Arg Arg Gly Thr Tyr Gly Ala Leu Ser Val Ala Trp  
   515                         520                         525  
 Thr Thr Gly Tyr Ala Pro Gly Leu Glu Ile Pro Glu Phe Ile Val Val  
   530                         535                         540  
 Gly Asn Met Thr Pro Thr Leu Gly Ser Leu Ser Phe Ser His Gly Glu  
   545                         550                         555                         560

Gln Arg Lys Gly Val Phe Leu Trp Thr Phe Pro Ser Pro Gly Trp Pro  
 565 570 575  
 Glu Ala Phe Val Leu His Leu Ser Gly Val Gln Ser Ser Ala Pro Gly  
 580 585 590  
 Gly Ala Gln Leu Arg Ser Gly Phe Ile Val Ala Glu Ile Glu Pro Met  
 595 600 605  
 Gly Val Phe Gln Phe Ser Thr Ser Ser Arg Asn Ile Ile Val Ser Glu  
 610 615 620  
 Asp Thr Gln Met Ile Arg Leu His Val Gln Arg Leu Phe Gly Phe His  
 625 630 635 640  
 Ser Asp Leu Ile Lys Val Ser Tyr Gln Thr Thr Ala Gly Ser Ala Lys  
 645 650 655  
 Pro Leu Glu Asp Phe Glu Pro Val Gln Asn Gly Glu Leu Phe Phe Gln  
 660 665 670  
 Lys Phe Gln Thr Glu Val Asp Phe Glu Ile Thr Ile Ile Asn Asp Gln  
 675 680 685  
 Leu Ser Glu Ile Glu Glu Phe Phe Tyr Ile Asn Leu Thr Ser Val Glu  
 690 695 700  
 Ile Arg Gly Leu Gln Lys Phe Asp Val Asn Trp Ser Pro Arg Leu Asn  
 705 710 715 720  
 Leu Asp Phe Ser Val Ala Val Ile Thr Ile Leu Asp Asn Asp Asp Leu  
 725 730 735  
 Ala Gly Met Asp Ile Ser Phe Pro Glu Thr Thr Val Ala Val Ala Val  
 740 745 750  
 Asp Thr Thr Leu Ile Pro Val Glu Thr Glu Ser Thr Thr Tyr Leu Ser  
 755 760 765  
 Thr Ser Lys Thr Thr Ile Leu Gln Pro Thr Asn Val Val Ala Ile  
 770 775 780  
 Val Thr Glu Ala Thr Gly Val Ser Ala Ile Pro Glu Lys Leu Val Thr  
 785 790 795 800  
 Leu His Gly Thr Pro Ala Val Ser Glu Lys Pro Asp Val Ala Thr Val  
 805 810 815  
 Thr Ala Asn Val Ser Ile His Gly Thr Phe Ser Leu Gly Pro Ser Ile  
 820 825 830  
 Val Tyr Ile Glu Glu Glu Met Lys Asn Gly Thr Phe Asn Thr Ala Glu  
 835 840 845  
 Val Leu Ile Arg Arg Thr Gly Gly Phe Thr Gly Asn Val Ser Ile Thr  
 850 855 860  
 Val Lys Thr Phe Gly Glu Arg Cys Ala Gln Met Glu Pro Asn Ala Leu  
 865 870 875 880  
 Pro Phe Arg Gly Ile Tyr Gly Ile Ser Asn Leu Thr Trp Ala Val Glu  
 885 890 895  
 Glu Glu Asp Phe Glu Glu Gln Thr Leu Thr Leu Ile Phe Leu Asp Gly  
 900 905 910  
 Glu Arg Glu Arg Lys Val Ser Val Gln Ile Leu Asp Asp Glu Pro  
 915 920 925  
 Glu Gly Gln Glu Phe Phe Tyr Val Phe Leu Thr Asn Pro Gln Gly Gly  
 930 935 940  
 Ala Gln Ile Val Glu Gly Lys Asp Asp Thr Gly Phe Ala Ala Phe Ala  
 945 950 955 960  
 Met Val Ile Ile Thr Gly Ser Asp Leu His Asn Gly Ile Ile Gly Phe  
 965 970 975  
 Ser Glu Glu Ser Gln Ser Gly Leu Glu Leu Arg Glu Gly Ala Val Met  
 980 985 990  
 Arg Arg Leu His Leu Ile Val Thr Arg Gln Pro Asn Arg Ala Phe Glu  
 995 1000 1005  
 Asp Val Lys Val Phe Trp Arg Val Thr Leu Asn Lys Thr Val Val Val  
 1010 1015 1020  
 Leu Gln Lys Asp Gly Val Asn Leu Met Glu Glu Leu Gln Ser Val Ser  
 1025 1030 1035 1040  
 Gly Thr Thr Thr Cys Thr Met Gly Gln Thr Lys Cys Phe Ile Ser Ile  
 1045 1050 1055  
 Glu Leu Lys Pro Glu Lys Val Pro Gln Val Glu Val Tyr Phe Phe Val  
 1060 1065 1070

Glu Leu Tyr Glu Ala Thr Ala Gly Ala Ala Ile Asn Asn Ser Ala Arg  
 1075 1080 1085  
 Phe Ala Gln Ile Lys Ile Leu Glu Ser Asp Glu Ser Gln Ser Leu Val  
 1090 1095 1100  
 Tyr Phe Ser Val Gly Ser Arg Leu Ala Val Ala His Lys Lys Ala Thr  
 1105 1110 1115 1120  
 Leu Ile Ser Leu Gln Val Ala Arg Asp Ser Gly Thr Gly Leu Met Met  
 1125 1130 1135  
 Ser Val Asn Phe Ser Thr Gln Glu Leu Arg Ser Ala Glu Thr Ile Gly  
 1140 1145 1150  
 Arg Thr Ile Ile Ser Pro Ala Ile Ser Gly Lys Asp Phe Val Ile Thr  
 1155 1160 1165  
 Glu Gly Thr Leu Val Phe Glu Pro Gly Gln Arg Ser Thr Val Leu Asp  
 1170 1175 1180  
 Val Ile Leu Thr Pro Glu Thr Gly Ser Leu Asn Ser Phe Pro Lys Arg  
 1185 1190 1195 1200  
 Phe Gln Ile Val Leu Phe Asp Pro Lys Gly Gly Ala Arg Ile Asp Lys  
 1205 1210 1215  
 Val Tyr Gly Thr Ala Asn Ile Thr Leu Val Ser Asp Ala Asp Ser Gln  
 1220 1225 1230  
 Ala Ile Trp Gly Leu Ala Asp Gln Leu His Gln Pro Val Asn Asp Asp  
 1235 1240 1245  
 Ile Leu Asn Arg Val Leu His Thr Ile Ser Met Lys Val Ala Thr Glu  
 1250 1255 1260  
 Asn Thr Asp Glu Gln Leu Ser Ala Met Met His Leu Ile Glu Lys Ile  
 1265 1270 1275 1280  
 Thr Thr Glu Gly Lys Ile Gln Ala Phe Ser Val Ala Ser Arg Thr Leu  
 1285 1290 1295  
 Phe Tyr Glu Ile Leu Cys Ser Leu Ile Asn Pro Lys Arg Lys Asp Thr  
 1300 1305 1310  
 Arg Gly Phe Ser His Phe Ala Glu Leu Thr Glu Asn Phe Ala Phe Ser  
 1315 1320 1325  
 Leu Leu Thr Asn Val Thr Cys Gly Ser Pro Gly Glu Lys Ser Lys Thr  
 1330 1335 1340  
 Ile Leu Asp Ser Cys Pro Tyr Leu Ser Ile Leu Ala Leu His Trp Tyr  
 1345 1350 1355 1360  
 Pro Gln Gln Ile Asn Gly His Lys Phe Glu Gly Lys Glu Gly Asp Tyr  
 1365 1370 1375  
 Ile Arg Ile Pro Glu Arg Leu Leu Asp Val Gln Asp Ala Glu Ile Met  
 1380 1385 1390  
 Ala Gly Lys Ser Thr Cys Lys Leu Val Gln Phe Thr Glu Tyr Ser Ser  
 1395 1400 1405  
 Gln Gln Trp Phe Ile Ser Gly Asn Asn Leu Pro Thr Leu Lys Asn Lys  
 1410 1415 1420  
 Val Leu Ser Leu Ser Val Lys Gly Gln Ser Ser Gln Leu Leu Thr Asn  
 1425 1430 1435 1440  
 Asp Asn Glu Val Leu Tyr Arg Ile Tyr Ala Ala Glu Pro Arg Ile Ile  
 1445 1450 1455  
 Pro Gln Thr Ser Leu Cys Leu Leu Trp Asn Gln Ala Ala Ser Trp  
 1460 1465 1470  
 Leu Ser Asp Ser Gln Phe Cys Lys Val Ile Glu Glu Thr Ala Asp Tyr  
 1475 1480 1485  
 Val Glu Cys Ala Cys Leu His Met Ser Val Tyr Ala Val Tyr Ala Arg  
 1490 1495 1500  
 Thr Asp Asn Leu Ser Ser Tyr Asn Glu Ala Phe Phe Thr Ser Gly Phe  
 1505 1510 1515 1520  
 Ile Cys Ile Ser Gly Leu Cys Leu Ala Val Leu Ser His Ile Phe Cys  
 1525 1530 1535  
 Ala Arg Tyr Ser Met Phe Ala Ala Lys Leu Leu Thr His Met Met Ala  
 1540 1545 1550  
 Ala Ser Leu Gly Thr Gln Ile Leu Phe Leu Ala Ser Ala Tyr Ala Ser  
 1555 1560 1565  
 Pro Gln Leu Ala Glu Glu Ser Cys Ser Ala Met Ala Ala Val Thr His  
 1570 1575 1580

Tyr Leu Tyr Leu Cys Gln Phe Ser Trp Met Leu Ile Gln Ser Val Asn  
 1585 1590 1595 1600  
 Phe Trp Tyr Val Leu Val Met Asn Asp Glu His Thr Glu Arg Arg Tyr  
 1605 1610 1615  
 Leu Leu Phe Leu Leu Ser Trp Gly Leu Pro Ala Phe Val Val Ile  
 1620 1625 1630  
 Leu Leu Ile Val Ile Leu Lys Gly Ile Tyr His Gln Ser Met Ser Gln  
 1635 1640 1645  
 Ile Tyr Gly Leu Ile His Gly Asp Leu Cys Phe Ile Pro Asn Val Tyr  
 1650 1655 1660  
 Ala Ala Leu Phe Thr Ala Ala Leu Val Pro Leu Thr Cys Leu Val Val  
 1665 1670 1675 1680  
 Val Phe Val Val Phe Ile His Ala Tyr Gln Val Lys Pro Gln Trp Lys  
 1685 1690 1695  
 Ala Tyr Asp Asp Val Phe Arg Gly Arg Thr Asn Ala Ala Glu Ile Pro  
 1700 1705 1710  
 Leu Ile Leu Tyr Leu Phe Ala Leu Ile Ser Val Thr Trp Leu Trp Gly  
 1715 1720 1725  
 Gly Leu His Met Ala Tyr Arg His Phe Trp Met Leu Val Leu Phe Val  
 1730 1735 1740  
 Ile Phe Asn Ser Leu Gln Leu Leu Tyr Pro Leu Phe Tyr Phe Leu Leu  
 1745 1750 1755 1760  
 Leu Xaa Asp Gln Ser Ser Ala Ser Pro Gly Gly Val Asp Tyr Ile  
 1765 1770 1775  
 Leu His Gly Ser Thr Val Thr Phe Gln His Gly Gln Asn Leu Ser Phe  
 1780 1785 1790  
 Ile Asn Ile Ser Ile Ile Asp Asp Asn Glu Ser Glu Phe Glu Glu Pro  
 1795 1800 1805  
 Ile Glu Ile Leu Leu Thr Gly Ala Thr Gly Gly Ala Val Leu Gly Arg  
 1810 1815 1820  
 His Leu Val Ser Arg Ile Ile Ile Ala Lys Ser Asp Ser Pro Phe Gly  
 1825 1830 1835 1840  
 Val Ile Arg Phe Leu Asn Gln Ser Lys Ile Ser Ile Ala Asn Pro Asn  
 1845 1850 1855  
 Ser Thr Met Ile Leu Ser Leu Val Leu Glu Arg Thr Gly Gly Leu Leu  
 1860 1865 1870  
 Gly Glu Ile Gln Val Asn Trp Glu Thr Val Gly Pro Asn Ser Gln Glu  
 1875 1880 1885  
 Ala Leu Leu Pro Gln Asn Arg Asp Ile Ala Asp Pro Val Ser Gln Glu  
 1890 1895 1900  
 Phe Tyr Phe Gly Glu Gly Glu Gly Val Arg Thr Ile Ile Leu Thr  
 1905 1910 1915 1920  
 Ile Tyr Pro His Glu Glu Ile Glu Val Glu Glu Thr Phe Ile Ile Lys  
 1925 1930 1935  
 Leu His Leu Val Lys Gly Glu Ala Lys Leu Asp Ser Arg Ala Lys Asp  
 1940 1945 1950  
 Val Thr Leu Thr Ile Gln Glu Phe Gly Asp Pro Asn Gly Val Val Gln  
 1955 1960 1965  
 Phe Ala Pro Glu Thr Leu Ser Lys Lys Thr Tyr Ser Glu Pro Leu Ala  
 1970 1975 1980  
 Leu Glu Gly Pro Leu Leu Ile Thr Phe Phe Val Arg Arg Val Lys Gly  
 1985 1990 1995 2000  
 Thr Phe Gly Glu Ile Met Val Tyr Trp Glu Leu Ser Ser Glu Phe Asp  
 2005 2010 2015  
 Ile Thr Glu Asp Phe Leu Ser Thr Ser Gly Phe Phe Thr Ile Ala Asp  
 2020 2025 2030  
 Gly Glu Ser Glu Ala Ser Phe Asp Val His Leu Leu Pro Asp Glu Val  
 2035 2040 2045  
 Pro Glu Ile Glu Glu Asp Tyr Val Ile Gln Leu Val Ser Val Glu Gly  
 2050 2055 2060  
 Gly Ala Glu Leu Asp Leu Glu Lys Ser Ile Thr Trp Phe Ser Val Tyr  
 2065 2070 2075 2080  
 Ala Asn Asp Asp Pro His Gly Val Phe Ala Leu Tyr Ser Asp Arg Gln  
 2085 2090 2095

Ser Ile Leu Ile Gly Gln Asn Leu Ile Arg Ser Ile Gln Ile Asn Ile  
 2100 2105 2110  
 Thr Arg Leu Ala Gly Thr Phe Gly Asp Val Ala Val Gly Leu Arg Ile  
 2115 2120 2125  
 Ser Ser Asp His Lys Glu Gln Pro Ile Val Thr Glu Asn Ala Glu Arg  
 2130 2135 2140  
 Gln Leu Val Val Lys Asp Gly Ala Thr Tyr Lys Val Asp Val Val Pro  
 2145 2150 2155 2160  
 Ile Lys Asn Gln Val Phe Leu Ser Leu Gly Ser Asn Phe Thr Leu Gln  
 2165 2170 2175  
 Leu Val Thr Val Met Leu Val Gly Gly Arg Phe Tyr Gly Met Pro Thr  
 2180 2185 2190  
 Ile Leu Gln Glu Ala Lys Ser Ala Val Leu Pro Val Ser Glu Lys Ala  
 2195 2200 2205  
 Ala Asn Ser Gln Val Gly Phe Glu Ser Thr Ala Phe Gln Leu Met Asn  
 2210 2215 2220  
 Ile Thr Ala Gly Thr Ser His Val Met Ile Ser Arg Arg Gly Thr Tyr  
 2225 2230 2235 2240  
 Gly Ala Leu Ser Val Ala Trp Thr Thr Gly Tyr Ala Pro Gly Leu Glu  
 2245 2250 2255  
 Ile Pro Glu Phe Ile Val Val Gly Asn Met Thr Pro Thr Leu Gly Ser  
 2260 2265 2270  
 Leu Ser Phe Ser His Gly Glu Gln Arg Lys Gly Val Phe Leu Trp Thr  
 2275 2280 2285  
 Phe Pro Ser Pro Gly Trp Pro Glu Ala Phe Val Leu His Leu Ser Gly  
 2290 2295 2300  
 Val Gln Ser Ser Ala Pro Gly Gly Ala Gln Leu Arg Ser Gly Phe Ile  
 2305 2310 2315 2320  
 Val Ala Glu Ile Glu Pro Met Gly Val Phe Gln Phe Ser Thr Ser Ser  
 2325 2330 2335  
 Arg Asn Ile Ile Val Ser Glu Asp Thr Gln Met Ile Arg Leu His Val  
 2340 2345 2350  
 Gln Arg Leu Phe Gly Phe His Ser Asp Leu Ile Lys Val Ser Tyr Gln  
 2355 2360 2365  
 Thr Thr Ala Gly Ser Ala Lys Pro Leu Glu Asp Phe Glu Pro Val Gln  
 2370 2375 2380  
 Asn Gly Glu Leu Phe Phe Gln Lys Phe Gln Thr Glu Val Asp Phe Glu  
 2385 2390 2395 2400  
 Ile Thr Ile Ile Asn Asp Gln Leu Ser Glu Ile Glu Glu Phe Phe Tyr  
 2405 2410 2415  
 Ile Asn Leu Thr Ser Val Glu Ile Arg Gly Leu Gln Lys Phe Asp Val  
 2420 2425 2430  
 Asn Trp Ser Pro Arg Leu Asn Leu Asp Phe Ser Val Ala Val Ile Thr  
 2435 2440 2445  
 Ile Leu Asp Asp Asp Asp Leu Ala Gly Met Asp Ile Ser Phe Pro Glu  
 2450 2455 2460  
 Thr Thr Val Ala Val Ala Val Asp Thr Thr Leu Ile Pro Val Glu Thr  
 2465 2470 2475 2480  
 Glu Ser Thr Thr Tyr Leu Ser Thr Ser Lys Thr Thr Thr Ile Leu Gln  
 2485 2490 2495  
 Pro Thr Asn Val Val Ala Ile Val Thr Glu Ala Thr Gly Val Ser Ala  
 2500 2505 2510  
 Ile Pro Glu Lys Leu Val Thr Leu His Gly Thr Pro Ala Val Ser Glu  
 2515 2520 2525  
 Lys Pro Asp Val Ala Thr Val Thr Ala Asn Val Ser Ile His Gly Thr  
 2530 2535 2540  
 Phe Ser Leu Gly Pro Ser Ile Val Tyr Ile Glu Glu Glu Met Lys Asn  
 2545 2550 2555 2560  
 Gly Thr Phe Asn Thr Ala Glu Val Leu Ile Arg Arg Thr Gly Phe  
 2565 2570 2575  
 Thr Gly Asn Val Ser Ile Thr Val Lys Thr Phe Gly Glu Arg Cys Ala  
 2580 2585 2590  
 Gln Met Glu Pro Asn Ala Leu Pro Phe Arg Gly Ile Tyr Gly Ile Ser  
 2595 2600 2605

Asn Leu Thr Trp Ala Val Glu Glu Glu Asp Phe Glu Glu Gln Thr Leu  
 2610 2615 2620  
 Thr Leu Ile Phe Leu Asp Gly Glu Arg Glu Arg Lys Val Ser Val Gln  
 2625 2630 2635 2640  
 Ile Leu Asp Asp Asp Glu Pro Glu Gly Gln Glu Phe Phe Tyr Val Phe  
 2645 2650 2655  
 Leu Thr Asn Pro Gln Gly Gly Ala Gln Ile Val Glu Gly Lys Asp Asp  
 2660 2665 2670  
 Thr Gly Phe Ala Ala Phe Ala Met Val Ile Ile Thr Gly Ser Asp Leu  
 2675 2680 2685  
 His Asn Gly Ile Ile Gly Phe Ser Glu Glu Ser Gln Ser Gly Leu Gln  
 2690 2695 2700  
 Leu Arg Glu Gly Ala Val Met Arg Arg Leu His Leu Ile Val Thr Arg  
 2705 2710 2715 2720  
 Gln Pro Asn Arg Ala Phe Glu Asp Val Lys Val Phe Trp Arg Val Thr  
 2725 2730 2735  
 Leu Asn Lys Thr Val Val Val Leu Gln Lys Asp Gly Val Asn Leu Met  
 2740 2745 2750  
 Glu Glu Leu Gln Ser Val Ser Gly Thr Thr Cys Thr Met Gly Gln  
 2755 2760 2765  
 Thr Lys Cys Phe Ile Ser Ile Glu Leu Lys Pro Glu Lys Val Pro Gln  
 2770 2775 2780  
 Val Glu Val Tyr Phe Phe Val Glu Leu Tyr Glu Ala Thr Ala Gly Ala  
 2785 2790 2795 2800  
 Ala Ile Asn Asn Ser Ala Arg Phe Ala Gln Ile Lys Ile Leu Glu Ser  
 2805 2810 2815  
 Asp Glu Ser Gln Ser Leu Val Tyr Phe Ser Val Gly Ser Arg Leu Ala  
 2820 2825 2830  
 Val Ala His Lys Lys Ala Thr Leu Ile Ser Leu Gln Val Ala Arg Asp  
 2835 2840 2845  
 Ser Gly Thr Gly Leu Met Met Ser Val Asn Phe Ser Thr Gln Glu Leu  
 2850 2855 2860  
 Arg Ser Ala Glu Thr Ile Gly Arg Thr Ile Ile Ser Pro Ala Ile Ser  
 2865 2870 2875 2880  
 Gly Lys Asp Phe Val Ile Thr Glu Gly Thr Leu Val Phe Glu Pro Gln  
 2885 2890 2895  
 Gln Arg Ser Thr Val Leu Asp Val Ile Leu Thr Pro Glu Thr Gly Ser  
 2900 2905 2910  
 Leu Asn Ser Phe Pro Lys Arg Phe Gln Ile Val Leu Phe Asp Pro Lys  
 2915 2920 2925  
 Gly Gly Ala Arg Ile Asp Lys Val Tyr Gly Thr Ala Asn Ile Thr Leu  
 2930 2935 2940  
 Val Ser Asp Ala Asp Ser Gln Ala Ile Trp Gly Leu Ala Asp Gln Leu  
 2945 2950 2955 2960  
 His Gln Pro Val Asn Asp Arg Ile Leu Asn Arg Val Leu His Thr Ile  
 2965 2970 2975  
 Ser Met Lys Val Ala Thr Glu Asn Thr Asp Glu Gln Leu Ser Ala Met  
 2980 2985 2990  
 Met His Leu Ile Glu Lys Ile Thr Thr Glu Gly Lys Ile Gln Ala Phe  
 2995 3000 3005  
 Ser Val Ala Ser Arg Thr Leu Phe Tyr Glu Ile Leu Cys Ser Leu Ile  
 3010 3015 3020  
 Asn Pro Lys Arg Lys Asp Thr Arg Gly Phe Ser His Phe Ala Glu Leu  
 3025 3030 3035 3040  
 Thr Glu Asn Phe Ala Phe Ser Leu Leu Thr Asn Val Thr Cys Gly Ser  
 3045 3050 3055  
 Pro Gly Glu Lys Ser Lys Thr Ile Leu Asp Ser Cys Pro Tyr Leu Ser  
 3060 3065 3070  
 Ile Leu Ala Leu His Trp Tyr Pro Gln Gln Ile Asn Gly His Lys Phe  
 3075 3080 3085  
 Glu Gly Lys Glu Gly Asp Tyr Ile Arg Ile Pro Glu Arg Leu Leu Asp  
 3090 3095 3100  
 Val Gln Asp Ala Glu Ile Met Ala Gly Lys Ser Thr Cys Lys Leu Val  
 3105 3110 3115 3120

Gln Phe Thr Glu Tyr Ser Ser Gln Gln Trp Phe Ile Ser Gly Asn Gln  
                  3125                 3130                 3135  
 Leu Pro Thr Leu Lys Asn Lys Val Leu Ser Leu Ser Val Lys Gly Gln  
                  3140                 3145                 3150  
 Ser Ser Gln Leu Leu Thr Asn Asp Asn Glu Val Leu Tyr Arg Ile Tyr  
                  3155                 3160                 3165  
 Ala Ala Glu Pro Arg Ile Ile Pro Gln Thr Ser Leu Cys Leu Leu Trp  
                  3170                 3175                 3180  
 Asn Gln Ala Ala Ala Ser Trp Leu Ser Asp Ser Gln Phe Cys Lys Val  
                  3185                 3190                 3195                 3200  
 Ile Glu Glu Thr Ala Asp Tyr Val Glu Cys Ala Cys Leu His Met Ser  
                  3205                 3210                 3215  
 Val Tyr Ala Val Tyr Ala Arg Thr Asp Asn Leu Ser Ser Tyr Asn Glu  
                  3220                 3225                 3230  
 Ala Phe Phe Thr Ser Gly Phe Ile Cys Ile Ser Gly Leu Cys Leu Ala  
                  3235                 3240                 3245  
 Val Leu Ser His Ile Phe Cys Ala Arg Tyr Ser Met Phe Ala Ala Lys  
                  3250                 3255                 3260  
 Leu Leu Thr His Met Met Ala Ala Ser Leu Gly Thr Gln Ile Leu Phe  
                  3265                 3270                 3275                 3280  
 Leu Ala Ser Ala Tyr Ala Ser Pro Gln Leu Ala Glu Glu Ser Cys Ser  
                  3285                 3290                 3295  
 Ala Met Ala Ala Val Thr His Tyr Leu Tyr Leu Cys Gln Phe Ser Tyr  
                  3300                 3305                 3310  
 Met Leu Ile Gln Ser Val Asn Phe Trp Tyr Val Leu Val Met Asn Asp  
                  3315                 3320                 3325  
 Glu His Thr Glu Arg Arg Tyr Leu Leu Phe Phe Leu Leu Ser Trp Gly  
                  3330                 3335                 3340  
 Leu Pro Ala Phe Val Val Ile Leu Leu Ile Val Ile Leu Lys Gly Ile  
                  3345                 3350                 3355                 3360  
 Tyr His Gln Ser Met Ser Gln Ile Tyr Gly Leu Ile His Gly Asp Leu  
                  3365                 3370                 3375  
 Cys Phe Ile Pro Asn Val Tyr Ala Ala Leu Phe Thr Ala Ala Leu Val  
                  3380                 3385                 3390  
 Pro Leu Thr Cys Leu Val Val Phe Val Val Phe Ile His Ala Tyr  
                  3395                 3400                 3405  
 Gln Val Lys Pro Gln Trp Lys Ala Tyr Asp Asp Val Phe Arg Gly Arg  
                  3410                 3415                 3420  
 Thr Asn Ala Ala Glu Ile Pro Leu Ile Leu Tyr Leu Phe Ala Leu Ile  
                  3425                 3430                 3435                 3440  
 Ser Val Thr Trp Leu Trp Gly Gly Leu His Met Ala Tyr Arg His Phe  
                  3445                 3450                 3455  
 Trp Met Leu Val Leu Phe Val Ile Phe Asn Ser Leu Gln Leu Val  
                  3460                 3465                 3470  
 Pro Ser Val Leu Leu Phe Thr Ser Met Arg Ser Thr Phe Phe Ser Phe  
                  3475                 3480                 3485  
 His Thr Gly Thr Leu Thr Ser Arg Glu Lys Lys Ser Thr Phe Val Leu  
                  3490                 3495                 3500  
 Thr Cys Leu Leu Ser Pro Asp Ser Lys Gly Leu Gly Val Leu Cys Phe  
                  3505                 3510                 3515                 3520  
 Leu Asn Thr Glu Trp Ala Phe Gln Val His  
                  3525                 3530

<210> 1102  
<211> 945  
<212>Amino acid  
<213> Homo sapiens

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<220>
<221> misc_feature
<222> (1)...(945)
<223> X = any amino acid or stop code
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<400> 1102  
 Ala Ala Gly Ala Thr Met Glu Arg Asp Gly Cys Ala Gly Gly Ser  
 1 5 10 15  
 Arg Gly Gly Glu Gly Gly Arg Ala Pro Arg Glu Gly Pro Ala Gly Asn  
 20 25 30  
 Gly Arg Asp Arg Gly Arg Ser His Ala Ala Glu Ala Pro Gly Asp Pro  
 35 40 45  
 Gln Ala Ala Ala Ser Leu Leu Ala Pro Met Asp Val Gly Glu Glu Pro  
 50 55 60  
 Leu Glu Lys Ala Ala Arg Ala Arg Thr Ala Lys Asp Pro Asn Thr Tyr  
 65 70 75 80  
 Lys Val Leu Ser Leu Val Leu Ser Val Cys Val Leu Thr Thr Ile Leu  
 85 90 95  
 Gly Cys Ile Phe Gly Leu Lys Pro Ser Cys Ala Lys Glu Val Lys Ser  
 100 105 110  
 Cys Lys Gly Arg Cys Phe Glu Arg Thr Phe Gly Asn Cys Arg Cys Asp  
 115 120 125  
 Ala Ala Cys Val Glu Leu Gly Asn Cys Cys Leu Gly Leu Pro Gly Gly  
 130 135 140  
 Thr Cys Ile Glu Pro Glu His Ile Trp Thr Cys Asn Lys Phe Arg Cys  
 145 150 155 160  
 Gly Glu Lys Arg Ile Thr Arg Ser Leu Cys Ala Cys Ser Asp Asp Cys  
 165 170 175  
 Lys Asp Arg Gly Asp Cys Leu Pro Ser Asn Leu Gln Phe Leu Cys Val  
 180 185 190  
 Gln Gly Glu Lys Ser Trp Gly Arg Lys Asn Pro Cys Glu Ser His Leu  
 195 200 205  
 Met Glu Pro Gln Cys Pro Ala Gly Phe Glu Thr Pro Ser Leu Pro Leu  
 210 215 220  
 Leu Ile Phe Ser Leu Asp Gly Phe Arg Ala Glu Tyr Leu His Thr Trp  
 225 230 235 240  
 Gly Gly Leu Leu Pro Val Ile Ser Lys Leu Lys Lys Cys Gly Thr Tyr  
 245 250 255  
 Thr Lys Asn Met Arg Pro Val Tyr Pro Thr Lys Thr Phe Pro Asn His  
 260 265 270  
 Tyr Ser Ile Val Thr Gly Leu Tyr Pro Glu Ser His Gly Ile Ile Asn  
 275 280 285  
 Asn Lys Met Tyr Asp Pro Lys Met Asn Ala Ser Phe Ser Leu Lys Ser  
 290 295 300  
 Lys Glu Lys Phe Asn Pro Glu Trp Tyr Lys Gly Glu Pro Ile Trp Val  
 305 310 315 320  
 Thr Ala Lys Tyr Gln Gly Leu Lys Ser Gly Thr Phe Phe Trp Pro Gly  
 325 330 335  
 Ser Asp Val Glu Ile Asn Gly Ile Phe Pro Asp Ile Tyr Lys Met Tyr  
 340 345 350  
 Asn Gly Ser Val Pro Phe Glu Glu Arg Ile Leu Ala Val Leu Gln Trp  
 355 360 365  
 Leu Gln Leu Pro Lys Asp Glu Arg Pro His Phe Tyr Thr Leu Tyr Leu  
 370 375 380  
 Glu Glu Pro Asp Ser Ser Gly His Ser Tyr Gly Pro Val Ser Ser Glu  
 385 390 395 400  
 Val Ile Lys Ala Leu Gln Arg Val Asp Gly Met Val Gly Met Leu Met  
 405 410 415  
 Asp Gly Leu Lys Glu Leu Asn Leu His Arg Cys Leu Asn Leu Ile Leu  
 420 425 430  
 Ile Ser Asp His Gly Met Glu Gln Gly Ser Cys Lys Lys Tyr Ile Tyr  
 435 440 445  
 Leu Asn Lys Tyr Leu Gly Asp Val Lys Asn Ile Lys Val Ile Tyr Gly  
 450 455 460  
 Pro Ala Ala Arg Leu Arg Pro Ser Asp Val Pro Asp Lys Tyr Tyr Ser

465	470	475	480
Phe Asn Tyr Glu Gly Ile Ala Arg Asn Leu Ser Cys Arg Glu Pro Asn			
485	490	495	
Gln His Phe Lys Pro Tyr Leu Lys His Phe Leu Pro Lys Arg Leu His			
500	505	510	
Phe Ala Lys Ser Asp Arg Ile Glu Pro Leu Thr Phe Tyr Leu Asp Pro			
515	520	525	
Gln Trp Gln Leu Ala Leu Asn Pro Ser Glu Arg Lys Tyr Cys Gly Ser			
530	535	540	
Gly Phe His Gly Ser Asp Asn Val Phe Ser Asn Met Gln Ala Leu Phe			
545	550	555	560
Val Gly Tyr Gly Pro Gly Phe Lys His Gly Ile Glu Ala Asp Thr Phe			
565	570	575	
Glu Asn Ile Glu Val Tyr Asn Leu Met Cys Asp Leu Leu Asn Leu Thr			
580	585	590	
Pro Ala Pro Asn Asn Gly Thr His Gly Ser Leu Asn His Leu Leu Lys			
595	600	605	
Asn Pro Val Tyr Thr Pro Lys His Pro Lys Glu Val His Pro Leu Val			
610	615	620	
Gln Cys Pro Phe Thr Arg Asn Pro Arg Asp Asn Leu Gly Cys Ser Cys			
625	630	635	640
Asn Pro Ser Ile Leu Pro Ile Glu Asp Phe Gln Thr Gln Phe Asn Leu			
645	650	655	
Thr Val Ala Glu Glu Lys Ile Ile Lys His Glu Thr Leu Pro Tyr Gly			
660	665	670	
Arg Pro Arg Val Leu Glu Lys Glu Asn Thr Ile Cys Leu Leu Ser Gln			
675	680	685	
His Gln Phe Met Ser Gly Tyr Ser Gln Asp Ile Leu Met Pro Leu Trp			
690	695	700	
Thr Ser Tyr Thr Val Asp Arg Asn Asp Ser Phe Ser Thr Glu Asp Phe			
705	710	715	720
Ser Asn Cys Leu Tyr Gln Asp Phe Arg Ile Pro Leu Ser Pro Val His			
725	730	735	
Lys Cys Ser Phe Tyr Lys Asn Asn Thr Lys Val Ser Tyr Gly Phe Leu			
740	745	750	
Ser Pro Pro Gln Leu Asn Lys Asn Ser Ser Gly Ile Tyr Ser Glu Ala			
755	760	765	
Leu Leu Thr Thr Asn Ile Val Pro Met Tyr Gln Ser Phe Gln Val Ile			
770	775	780	
Trp Arg Tyr Phe His Asp Thr Leu Leu Arg Lys Tyr Ala Glu Glu Arg			
785	790	795	800
Asn Gly Val Asn Val Val Ser Gly Pro Val Phe Asp Phe Asp Tyr Asp			
805	810	815	
Gly Arg Cys Asp Ser Leu Glu Asn Leu Arg Gln Lys Arg Arg Val His			
820	825	830	
Pro Val Thr Gln Glu Asn Phe Trp Ile Pro Asn Ser Thr Ser Phe Tyr			
835	840	845	
Val Val Leu Thr Ser Cys Lys Asp Thr Ser Gln Thr Pro Leu His Cys			
850	855	860	
Glu Asn Leu Asp Thr Leu Gly Phe Pro Phe Cys Leu His Arg Asp Trp			
865	870	875	880
Ile Asn Ser Glu Thr Cys Val His Gly Lys His Asp Ser Ser Trp Val			
885	890	895	
Glu Glu Phe Val Lys Cys Leu His Arg Ala Arg Ile Thr Gly Cys Xaa			
900	905	910	
Gly Thr Ser Leu Gly Leu Ser Phe Tyr Gln Gln Arg Lys Glu Pro Val			
915	920	925	
Ser Asp Ile Leu Lys Leu Lys Thr His Leu Pro Thr Phe Ser Gln Glu			
930	935	940	
Asp			
945			

<211> 217  
<212>Amino acid  
<213> Homo sapiens

<400> 1103  
Thr Val Pro Pro Pro Pro Gly Gly Pro Ser Pro Ala Pro Leu His Pro  
1 5 10 15  
Lys Arg Ser Pro Thr Ser Thr Gly Glu Ala Glu Leu Lys Glu Glu Arg  
20 25 30  
Leu Pro Gly Arg Lys Ala Ser Cys Ser Thr Ala Gly Ser Gly Ser Arg  
35 40 45  
Gly Leu Pro Pro Leu Ser Pro Met Val Ser Ser Ala His Asn Pro Asn  
50 55 60  
Lys Ala Glu Ile Pro Glu Arg Arg Lys Asp Ser Thr Ser Thr Pro Asn  
65 70 75 80  
Asn Leu Pro Pro Ser Met Met Thr Arg Arg Asn Thr Tyr Val Cys Thr  
85 90 95  
Glu Arg Pro Ala Glu Arg Pro Ser Leu Leu Pro Asn Gly Lys Glu  
100 105 110  
Asn Ser Ser Gly Thr Pro Arg Val Pro Pro Ala Ser Pro Ser Ser His  
115 120 125  
Ser Leu Ala Pro Pro Ser Gly Glu Arg Ser Arg Leu Ala Arg Gly Ser  
130 135 140  
Thr Ile Arg Ser Thr Phe His Gly Gly Gln Val Arg Asp Arg Arg Ala  
145 150 155 160  
Gly Gly Trp Gly Trp Phe Asn Lys His Ala Leu Gln Arg Ala Pro  
165 170 175  
Arg Asn Ala Gly Ala Pro Ser Leu Met Pro Gly His Arg Thr Val Leu  
180 185 190  
Ile Asn Tyr Gly Gly Gly Gln Asp Leu Lys Asn Trp Glu Thr Cys Leu  
195 200 205  
Ala Ala Pro Pro Asn Lys His Arg Arg  
210 215 217

<210>, 1104  
<211> 436  
<212>Amino acid  
<213> Homo sapiens

<400> 1104  
His Thr Leu His His Ser Ser Pro Thr Ser Glu Ala Glu Glu Phe Val  
1 5 10 15  
Ser Arg Leu Ser Thr Gln Asn Tyr Phe Arg Ser Leu Pro Arg Gly Thr  
20 25 30  
Ser Asn Met Thr Tyr Gly Thr Phe Asn Phe Leu Gly Gly Arg Leu Met  
35 40 45  
Ile Pro Asn Thr Gly Ile Ser Leu Leu Ile Pro Pro Asp Ala Ile Pro  
50 55 60  
Arg Gly Lys Ile Tyr Glu Ile Tyr Leu Thr Leu His Lys Pro Glu Asp  
65 70 75 80  
Val Arg Leu Pro Leu Ala Gly Cys Gln Thr Leu Leu Ser Pro Ile Val  
85 90 95  
Ser Cys Gly Pro Pro Gly Val Leu Leu Thr Arg Pro Val Ile Leu Gly  
100 105 110  
Met Asp His Cys Gly Glu Pro Ser Pro Asp Ser Trp Ser Leu Arg Leu

115	120	125
Lys Lys Gln Ser Cys Glu Gly Ser Trp Glu Asp Val Leu His Leu Gly		
130	135	140
Glu Glu Ala Pro Ser His Leu Tyr Tyr Cys Gln Leu Glu Ala Ser Ala		
145	150	155
Cys Tyr Val Phe Thr Glu Gln Leu Ser Arg Tyr Ala Leu Val Gly Glu		
165	170	175
Ala Leu Ser Val Ala Ala Ala Lys Arg Leu Lys Leu Leu Phe Ala		
180	185	190
Pro Val Ala Cys Thr Ser Leu Glu Tyr Asn Ile Leu Val Tyr Cys Leu		
195	200	205
His Asp Thr His Asp Ala Leu Asn Val Val Gln Leu Glu Lys Gln		
210	215	220
Leu Gln Gly Gln Leu Ile Gln Glu Pro Leu Val Leu His Phe Lys Asp		
225	230	235
Ser Tyr His Asn Leu Arg Leu Ser Ile His Asp Val Pro Ser Ser Leu		
245	250	255
Trp Lys Ser Lys Leu Leu Val Ser Tyr Gln Glu Ile Pro Phe Tyr His		
260	265	270
Ile Trp Asn Gly Thr Gln Arg Tyr Leu His Cys Thr Phe Thr Leu Glu		
275	280	285
Arg Val Ser Pro Ser Thr Ser Asp Leu Ala Cys Lys Leu Trp Val Trp		
290	295	300
Gln Val Glu Gly Asp Gly Gln Ser Phe Ser Ile Asn Phe Asn Ile Thr		
305	310	315
Lys Asp Thr Arg Phe Ala Glu Leu Leu Ala Leu Glu Ser Glu Ala Gly		
325	330	335
Val Pro Ala Leu Val Gly Pro Ser Ala Phe Lys Ile Pro Phe Leu Ile		
340	345	350
Arg Gln Lys Ile Ile Ser Ser Leu Asp Pro Pro Cys Arg Arg Gly Ala		
355	360	365
Asp Trp Arg Thr Leu Ala Gln Lys Leu His Leu Asp Ser His Leu Ser		
370	375	380
Phe Phe Ala Ser Lys Pro Ser Pro Thr Ala Met Ile Leu Asn Leu Trp		
385	390	395
Glu Ala Arg His Phe Pro Asn Gly Asn Leu Ser Gln Leu Ala Ala Ala		
405	410	415
Val Ala Gly Thr Gly Pro Ala Gly Arg Trp Leu Leu Ser Gln Cys Ser		
420	425	430
Glu Ala Glu Cys		
435	436	

<210> 1105  
<211> 113  
<212>Amino acid  
<213> Homo sapiens

<400> 1105			
Gly Ser Ala Ala Gly Gln Val Gln Gln Gln Gln Arg Arg His Gln			
1	5	10	15
Gln Gly Lys Val Thr Val Lys Tyr Asp Arg Lys Glu Leu Arg Lys Arg			
20	25	30	
Leu Val Leu Glu Glu Trp Ile Val Glu Gln Leu Gly Gln Leu Tyr Gly			
35	40	45	
Cys Glu Glu Glu Glu Met Pro Glu Val Glu Ile Asp Ile Asp Asp Leu			
50	55	60	
Phe Asp Ala Tyr Ser Asp Glu Gln Arg Ala Ser Lys Leu Gln Glu Ala			
65	70	75	80
Leu Val Asp Cys Tyr Lys Pro Thr Glu Glu Phe Ile Lys Glu Leu Leu			

85	90	95
Ser Arg Ile Arg Gly Met Arg Lys Leu Ser Pro Pro Gln Lys Lys Ser		
100	105	110
Val		
113		

<210> 1106  
<211> 464  
<212>Amino acid  
<213> Homo sapiens

<400> 1106			
Ile Met Leu Asp Gly Arg Val Arg Trp Leu Thr Pro Val Ile Ser Ala			
1	5	10	15
Leu Trp Glu Ala Glu Met Glu Asp Val Ile Ala Arg Met Gln Asp Glu			
20	25	30	
Lys Asn Gly Ile Pro Ile Arg Thr Val Lys Ser Phe Leu Ser Lys Ile			
35	40	45	
Pro Ser Val Phe Ser Gly Ser Asp Ile Val Gln Trp Leu Ile Lys Asn			
50	55	60	
Leu Thr Ile Glu Asp Pro Val Glu Ala Leu His Leu Gly Thr Leu Met			
65	70	75	80
Ala Ala His Gly Tyr Phe Phe Pro Ile Ser Asp His Val Leu Thr Leu			
85	90	95	
Lys Asp Asp Gly Thr Phe Tyr Arg Phe Gln Thr Pro Tyr Phe Trp Pro			
100	105	110	
Ser Asn Cys Trp Glu Pro Glu Asn Thr Asp Tyr Ala Val Tyr Leu Cys			
115	120	125	
Lys Arg Thr Met Gln Asn Lys Ala Arg Leu Glu Leu Ala Asp Tyr Glu			
130	135	140	
Ala Glu Ser Leu Ala Arg Leu Gln Arg Ala Phe Ala Arg Lys Trp Glu			
145	150	155	160
Phe Ile Phe Met Gln Ala Glu Ala Gln Ala Lys Val Asp Lys Lys Arg			
165	170	175	
Asp Lys Ile Glu Arg Lys Ile Leu Asp Ser Gln Glu Arg Ala Phe Trp			
180	185	190	
Asp Val His Arg Pro Val Pro Gly Cys Val Asn Thr Thr Glu Val Asp			
195	200	205	
Ile Lys Lys Ser Ser Arg Met Arg Asn Pro His Lys Thr Arg Lys Ser			
210	215	220	
Val Tyr Gly Leu Gln Asn Asp Ile Arg Ser His Ser Pro Thr His Thr			
225	230	235	240
Pro Thr Pro Glu Thr Lys Pro Pro Thr Glu Asp Glu Leu Gln Gln Gln			
245	250	255	
Ile Lys Tyr Trp Gln Ile Gln Leu Asp Arg His Arg Leu Lys Met Ser			
260	265	270	
Lys Val Ala Asp Ser Leu Leu Ser Tyr Thr Glu Gln Tyr Leu Glu Tyr			
275	280	285	
Asp Pro Phe Leu Leu Pro Pro Asp Pro Ser Asn Pro Trp Leu Ser Asp			
290	295	300	
Asp Thr Thr Phe Trp Glu Leu Glu Ala Ser Lys Glu Pro Ser Gln Gln			
305	310	315	320
Arg Val Lys Arg Trp Gly Phe Gly Met Asp Glu Ala Leu Lys Asp Pro			
325	330	335	
Val Gly Arg Glu Gln Phe Leu Lys Phe Leu Glu Ser Glu Phe Ser Ser			
340	345	350	
Glu Asn Leu Arg Phe Trp Leu Ala Val Glu Asp Leu Lys Lys Arg Pro			
355	360	365	
Ile Lys Glu Val Pro Ser Arg Val Gln Glu Ile Trp Gln Glu Phe Leu			

370	375	380
Ala Pro Gly Ala Pro Ser Ala Ile Asn Leu Asp Ser Lys Ser Tyr Asp		
385	390	395
Lys Thr Thr Gln Asn Val Lys Glu Pro Gly Arg Tyr Thr Phe Glu Asp		400
405	410	415
Ala Gln Glu His Ile Tyr Lys Leu Met Lys Ser Asp Ser Tyr Pro Arg		
420	425	430
Phe Ile Arg Ser Ser Ala Tyr Gln Glu Leu Leu Gln Ala Lys Lys Lys		
435	440	445
Gly Lys Ser Leu Thr Ser Lys Arg Leu Thr Ser Leu Ala Gln Ser Tyr		
450	455	460
		464

<210> 1107  
<211> 153  
<212>Amino acid  
<213> Homo sapiens

<400> 1107		
Gly Thr Arg Asp Tyr Pro Arg Ile Val Asn His Leu Asp His Thr Tyr		
1	5	10
Val Thr Ala Pro Gln Ala Phe Met Met Phe Gln Tyr Phe Val Lys Val		
20	25	30
Val Pro Thr Val Tyr Met Lys Val Asp Gly Glu Val Leu Thr Thr Asn		
35	40	45
Gln Ile Tyr Val Thr Arg His Glu Lys Ala Ala Tyr Val Leu Met Gly		
50	55	60
Asp Gln Gly Leu Pro Gly Val Phe Ile Leu Tyr Glu Leu Ser Pro Met		
65	70	75
Met Val Asn Leu Thr Glu Ile His Thr Phe Phe Ser Leu Phe Leu Thr		80
85	90	95
Ile Val Gly Ala Thr Ile Gly Gly Met Phe Phe Glu His Phe Val Ile		
100	105	110
Asn Tyr Leu Thr His Lys Trp Gly Leu Gly Phe Tyr Phe Lys Asn Glu		
115	120	125
Asn Ser Leu Gln Gly Gly His Arg Thr Leu Tyr Gly Val Asn Phe Phe		
130	135	140
Met Tyr Trp Ser Leu Arg Gly Gly Ser		
145	150	153

<210> 1108  
<211> 506  
<212>Amino acid  
<213> Homo sapiens

<400> 1108		
Ser Val Trp Trp Asn Ser Gln Arg Gln Phe Val Val Arg Ala Trp Gly		
1	5	10
Cys Ala Gly Pro Cys Gly Arg Ala Val Phe Leu Ala Phe Gly Leu Gly		
20	25	30
Leu Gly Leu Ile Glu Glu Lys Gln Ala Glu Ser Arg Arg Ala Val Ser		
35	40	45
Ala Cys Gln Glu Ile Gln Ala Ile Phe Thr Gln Lys Ser Lys Pro Gly		

50	55	60
Pro Asp Pro Leu Asp Thr Arg Arg Leu Gln Gly Phe Arg Leu Glu Glu		
65	70	75
Tyr Leu Ile Gly Gln Ser Ile Gly Lys Gly Cys Ser Ala Ala Val Tyr		80
85	90	95
Glu Ala Thr Met Pro Thr Leu Pro Gln Asn Leu Glu Val Thr Lys Ser		
100	105	110
Thr Gly Leu Leu Pro Gly Arg Gly Pro Gly Thr Ser Ala Pro Gly Glu		
115	120	125
Gly Gln Glu Arg Ala Pro Gly Ala Pro Ala Phe Pro Leu Ala Ile Lys		
130	135	140
Met Met Trp Asn Ile Ser Ala Gly Ser Ser Glu Ala Ile Leu Asn		
145	150	155
Thr Met Ser Gln Glu Leu Val Pro Ala Ser Arg Val Ala Leu Ala Gly		
165	170	175
Glu Tyr Gly Ala Val Thr Tyr Arg Lys Ser Lys Arg Gly Pro Lys Gln		
180	185	190
Leu Ala Pro His Pro Asn Ile Ile Arg Val Leu Arg Ala Phe Thr Ser		
195	200	205
Ser Val Pro Leu Leu Pro Gly Ala Leu Val Asp Tyr Pro Asp Val Leu		
210	215	220
Pro Ser Arg Leu His Pro Glu Gly Leu Gly His Gly Arg Thr Leu Phe		
225	230	235
Leu Val Met Lys Asn Tyr Pro Cys Thr Leu Arg Gln Tyr Leu Cys Val		
245	250	255
Asn Thr Pro Ser Pro Arg Leu Ala Ala Met Met Leu Leu Gln Leu Leu		
260	265	270
Glu Gly Val Asp His Leu Val Gln Gln Gly Ile Ala His Arg Asp Leu		
275	280	285
Lys Ser Asp Asn Ile Leu Val Glu Leu Asp Pro Asp Gly Cys Pro Trp		
290	295	300
Leu Val Ile Ala Asp Phe Gly Cys Cys Leu Ala Asp Glu Ser Ile Gly		
305	310	315
Leu Gln Leu Pro Phe Ser Ser Trp Tyr Val Asp Arg Gly Gly Asn Gly		
325	330	335
Cys Leu Met Ala Pro Glu Val Ser Thr Ala Arg Pro Gly Pro Arg Ala		
340	345	350
Val Ile Asp Tyr Ser Lys Ala Asp Ala Trp Ala Val Gly Ala Ile Ala		
355	360	365
Tyr Glu Ile Phe Gly Leu Val Asn Pro Phe Tyr Gly Gln Gly Lys Ala		
370	375	380
His Leu Glu Ser Arg Ser Tyr Gln Glu Ala Gln Leu Pro Ala Leu Pro		
385	390	395
Glu Ser Val Pro Pro Asp Val Arg Gln Leu Val Arg Ala Leu Leu Gln		
405	410	415
Arg Glu Ala Ser Lys Arg Pro Ser Ala Arg Val Ala Ala Asn Val Leu		
420	425	430
His Leu Ser Leu Trp Gly Glu His Ile Leu Ala Leu Lys Asn Leu Lys		
435	440	445
Leu Asp Lys Met Val Gly Trp Leu Leu Gln Gln Ser Ala Ala Thr Leu		
450	455	460
Leu Ala Asn Arg Leu Thr Glu Lys Cys Cys Val Glu Thr Lys Met Lys		
465	470	475
Met Leu Phe Leu Ala Asn Leu Glu Cys Glu Thr Leu Cys Gln Ala Ala		
485	490	495
Leu Leu Leu Cys Ser Trp Arg Ala Ala Leu		
500	505	506

&lt;210&gt; 1109

&lt;211&gt; 382

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

<400> 1109

Arg	Pro	Leu	Leu	Arg	Leu	Ala	Glu	Leu	Pro	Asp	His	Cys	Tyr	Arg	Met
1					5					10				15	
Asn	Ser	Ser	Pro	Ala	Gly	Thr	Pro	Ser	Pro	Gln	Pro	Ser	Arg	Ala	Asn
					20				25				30		
Gly	Asn	Ile	Asn	Leu	Gly	Pro	Ser	Ala	Asn	Pro	Asn	Ala	Gln	Pro	Thr
					35				40				45		
Asp	Phe	Asp	Phe	Leu	Lys	Val	Ile	Gly	Lys	Gly	Asn	Tyr	Gly	Lys	Val
					50				55			60			
Leu	Leu	Ala	Lys	Arg	Lys	Ser	Asp	Gly	Ala	Phe	Tyr	Ala	Val	Lys	Val
					65				70			75		80	
Leu	Gln	Lys	Lys	Ser	Ile	Leu	Lys	Lys	Lys	Glu	Gln	Ser	His	Ile	Met
					85				90			95			
Ala	Glu	Arg	Ser	Val	Leu	Leu	Lys	Asn	Val	Arg	His	Pro	Phe	Leu	Val
					100				105				110		
Gly	Leu	Arg	Tyr	Ser	Phe	Gln	Thr	Pro	Glu	Lys	Leu	Tyr	Phe	Val	Leu
					115				120			125			
Asp	Tyr	Val	Asn	Gly	Gly	Glu	Leu	Phe	Phe	His	Leu	Gln	Arg	Glu	Arg
					130				135			140			
Arg	Phe	Leu	Glu	Pro	Arg	Ala	Arg	Phe	Tyr	Ala	Ala	Glu	Val	Ala	Ser
					145				150			155		160	
Ala	Ile	Gly	Tyr	Leu	His	Ser	Leu	Asn	Ile	Ile	Tyr	Arg	Asp	Leu	Lys
					165				170			175			
Pro	Glu	Asn	Ile	Leu	Leu	Asp	Cys	Gln	Gly	His	Val	Val	Leu	Thr	Asp
					180				185			190			
Phe	Gly	Leu	Cys	Lys	Glu	Gly	Val	Glu	Pro	Glu	Asp	Thr	Thr	Ser	Thr
					195				200			205			
Phe	Cys	Gly	Thr	Pro	Glu	Tyr	Leu	Ala	Pro	Glu	Val	Leu	Arg	Lys	Glu
					210				215			220			
Pro	Tyr	Asp	Arg	Ala	Val	Asp	Trp	Trp	Cys	Leu	Gly	Ala	Val	Leu	Tyr
					225				230			235		240	
Glu	Met	Leu	His	Gly	Leu	Pro	Pro	Phe	Tyr	Ser	Gln	Asp	Val	Ser	Gln
					245				250			255			
Met	Tyr	Glu	Asn	Ile	Leu	His	Gln	Pro	Leu	Gln	Ile	Pro	Gly	Gly	Arg
					260				265			270			
Thr	Val	Ala	Ala	Cys	Asp	Leu	Leu	Gln	Ser	Leu	Leu	His	Lys	Asp	Gln
					275				280			285			
Arg	Gln	Arg	Leu	Gly	Ser	Lys	Ala	Asp	Phe	Leu	Glu	Ile	Lys	Asn	His
					290				295			300			
Val	Phe	Phe	Ser	Pro	Ile	Asn	Trp	Asp	Asp	Leu	Tyr	His	Lys	Arg	Leu
					305				310			315		320	
Thr	Pro	Pro	Phe	Asn	Pro	Asn	Val	Thr	Gly	Pro	Ala	Asp	Leu	Lys	His
					325				330			335			
Phe	Asp	Pro	Glu	Phe	Thr	Gln	Glu	Ala	Val	Ser	Lys	Ser	Ile	Gly	Cys
					340				345			350			
Thr	Pro	Asp	Thr	Val	Ala	Ser	Ser	Gly	Ala	Ser	Ser	Ala	Phe	Leu	
					355				360			365			
Gly	Phe	Ser	Tyr	Ala	Pro	Glu	Asp	Asp	Asp	Ile	Leu	Asp	Cys		
					370				375			380		382	

&lt;210&gt; 1110

&lt;211&gt; 535

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

<400> 1110  
 Arg Pro Gln Thr Leu Lys Gly His Gln Glu Lys Ile Arg Gln Arg Gln  
 1 5 10 15  
 Ser Ile Leu Pro Pro Pro Gln Gly Pro Ala Pro Ile Pro Phe Gln His  
 20 25 30  
 Arg Gly Gly Asp Ser Pro Glu Ala Lys Asn Arg Val Gly Pro Gln Val  
 35 40 45  
 Pro Leu Ser Glu Pro Gly Phe Arg Arg Arg Glu Ser Gln Glu Glu Pro  
 50 55 60  
 Arg Ala Val Leu Ala Gln Lys Ile Glu Lys Glu Thr Gln Ile Leu Asn  
 65 70 75 80  
 Cys Ala Leu Asp Asp Ile Glu Trp Phe Val Ala Arg Leu Gln Lys Ala  
 85 90 95  
 Ala Glu Ala Phe Lys Gln Leu Asn Gln Arg Lys Lys Gly Lys Lys Lys  
 100 105 110  
 Gly Lys Lys Ala Pro Ala Glu Gly Val Leu Thr Leu Arg Ala Arg Pro  
 115 120 125  
 Pro Ser Glu Gly Glu Phe Ile Asp Cys Phe Gln Lys Ile Lys Leu Ala  
 130 135 140  
 Ile Asn Leu Leu Ala Lys Leu Gln Lys His Ile Gln Asn Pro Ser Ala  
 145 150 155 160  
 Ala Glu Leu Val His Phe Leu Phe Gly Pro Leu Asp Leu Ile Val Asn  
 165 170 175  
 Thr Cys Ser Gly Pro Asp Ile Ala Arg Ser Val Ser Cys Pro Leu Leu  
 180 185 190  
 Ser Arg Asp Ala Val Asp Phe Leu Arg Gly His Leu Val Pro Lys Glu  
 195 200 205  
 Met Ser Leu Trp Glu Ser Leu Gly Glu Ser Trp Met Arg Pro Arg Ser  
 210 215 220  
 Glu Trp Pro Arg Glu Pro Gln Val Pro Leu Tyr Val Pro Lys Phe His  
 225 230 235 240  
 Ser Gly Trp Glu Pro Pro Val Asp Val Leu Gln Glu Ala Pro Trp Glu  
 245 250 255  
 Val Glu Gly Leu Ala Ser Ala Pro Ile-Glu Glu Val Ser Pro Val Ser  
 260 265 270  
 Arg Gln Ser Ile Arg Asn Ser Gln Lys His Ser Pro Thr Ser Glu Pro  
 275 280 285  
 Thr Pro Pro Gly Asp Ala Leu Pro Pro Val Ser Ser Pro His Thr His  
 290 295 300  
 Arg Gly Tyr Gln Pro Thr Pro Ala Met Ala Lys Tyr Val Lys Ile Leu  
 305 310 315 320  
 Tyr Asp Phe Thr Ala Arg Asn Ala Asn Glu Leu Ser Val Leu Lys Asp  
 325 330 335  
 Glu Val Leu Glu Val Leu Glu Asp Gly Arg Gln Trp Trp Lys Leu Arg  
 340 345 350  
 Ser Arg Ser Gly Gln Ala Gly Tyr Val Pro Cys Asn Ile Leu Gly Glu  
 355 360 365  
 Ala Arg Pro Glu Asp Ala Gly Ala Pro Phe Glu Gln Ala Gly Gln Lys  
 370 375 380  
 Tyr Trp Gly Pro Ala Ser Pro Thr His Lys Leu Pro Pro Ser Phe Pro  
 385 390 395 400  
 Gly Asn Lys Asp Glu Leu Met Gln His Met Asp Glu Val Asn Asp Glu  
 405 410 415  
 Leu Ile Arg Lys Ile Ser Asn Ile Arg Ala Gln Pro Gln Arg His Phe  
 420 425 430  
 Arg Val Glu Arg Ser Gln Pro Val Ser Gln Pro Leu Thr Tyr Glu Ser  
 435 440 445  
 Gly Pro Asp Glu Val Arg Ala Trp Leu Glu Ala Lys Ala Phe Ser Pro  
 450 455 460  
 Arg Ile Val Glu Asn Leu Gly Ile Leu Thr Gly Pro Gln Leu Phe Ser  
 465 470 475 480  
 Leu Asn Lys Glu Glu Leu Lys Lys Val Cys Gly Glu Glu Gly Val Arg  
 485 490 495  
 Val Tyr Ser Gln Leu Thr Met Gln Lys Ala Phe Leu Glu Lys Gln Gln

500	505	510
Ser Gly Ser Glu Leu Glu Glu Leu Met Asn Lys Phe His Ser Met Asn		
515	520	525
Gln Arg Arg Gly Glu Asp Ser		
530	535	

<210> 1111  
<211> 346  
<212> Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(346)  
<223> X = any amino acid or stop code

<400> 1111		
Ala Trp His Glu Gly Leu Val Ser Ser Pro Ala Ile Gly Ala Tyr Leu		
1	5	10
Ser Ala Ser Tyr Gly Asp Ser Leu Val Val Leu Val Ala Thr Val Val		
20	25	30
Ala Leu Leu Asp Ile Cys Phe Ile Leu Val Ala Val Pro Glu Ser Leu		
35	40	45
Pro Glu Lys Met Arg Pro Val Ser Trp Gly Ala Gln Ile Ser Trp Lys		
50	55	60
Gln Ala Asp Pro Phe Ala Ser Leu Lys Lys Val Gly Lys Asp Ser Thr		
65	70	75
Val Leu Leu Ile Cys Ile Thr Val Cys Leu Ser Tyr Leu Pro Glu Ala		
85	90	95
Gly Gln Tyr Ser Ser Phe Phe Leu Tyr Leu Arg Gln Val Ile Gly Phe		
100	105	110
Gly Ser Val Lys Ile Ala Ala Phe Ile Ala Met Val Gly Ile Leu Ser		
115	120	125
Ile Val Ala Gln Thr Ala Phe Leu Ser Ile Leu Met Arg Ser Leu Gly		
130	135	140
Asn Lys Asn Thr Val Leu Leu Gly Leu Gly Phe Gln Met Leu Gln Leu		
145	150	155
Ala Trp Tyr Gly Phe Gly Ser Gln Ala Trp Met Met Trp Ala Ala Gly		
165	170	175
Thr Val Ala Ala Met Ser Ser Ile Thr Phe Pro Ala Ile Ser Ala Leu		
180	185	190
Val Ser Arg Asn Ala Glu Ser Asp Gln Gln Gly Val Ala Gln Gly Ile		
195	200	205
Ile Thr Gly Ile Arg Gly Leu Cys Asn Gly Leu Gly Pro Ala Leu Tyr		
210	215	220
Gly Phe Ile Phe Tyr Met Phe His Val Glu Leu Thr Glu Leu Gly Pro		
225	230	235
Lys Leu Asn Ser Asn Asn Val Pro Leu Gln Gly Ala Val Ile Pro Gly		
245	250	255
Pro Pro Phe Leu Phe Gly Ala Cys Ile Val Leu Met Ser Phe Leu Ala		
260	265	270
Ala Leu Phe Ile Pro Glu Tyr Ser Lys Ala Ser Gly Val Gln Lys His		
275	280	285
Ser Asn Ser Ser Ser Gly Ser Leu Thr Asn Thr Pro Glu Arg Gly Ser		
290	295	300
Asp Glu Asp Ile Glu Pro Leu Leu Gln Asp Ser Ser Ile Trp Glu Leu		
305	310	315
Ser Ser Phe Glu Glu Pro Gly Asn Gln Cys Thr Glu Leu Xaa Thr Arg		
325	330	335

Gln Lys Val Gly Phe Cys Ile Arg His Leu  
 340                   345 346

<210> 1112  
<211> 647  
<212>Amino acid  
<213> Homo sapiens

<400> 1112  
Met Ala Ala Gly Leu Ala Thr Trp Leu Pro Phe Ala Arg Ala Ala Ala  
 1               5                   10                   15  
Val Gly Trp Leu Pro Leu Ala Gln Pro Leu Pro Pro Ala Pro Gly  
 20               25                   30  
Val Lys Ala Ser Arg Gly Asp Glu Val Leu Val Val Asn Val Ser Gly  
 35               40                   45  
Arg Arg Phe Glu Thr Trp Lys Asn Thr Leu Asp Arg Tyr Pro Asp Thr  
 50               55                   60  
Leu Leu Gly Ser Ser Glu Lys Glu Phe Phe Tyr Asp Ala Asp Ser Gly  
 65               70                   75                   80  
Glu Tyr Phe Phe Asp Arg Asp Pro Asp Met Phe Arg His Val Leu Asn  
 85               90                   95  
Phe Tyr Arg Thr Gly Arg Leu His Cys Pro Arg Gln Glu Cys Ile Gln  
 100              105                   110  
Ala Phe Asp Glu Glu Leu Ala Phe Tyr Gly Leu Val Pro Glu Leu Val  
 115              120                   125  
Gly Asp Cys Cys Leu Glu Glu Tyr Arg Asp Arg Lys Lys Glu Asn Ala  
 130              135                   140  
Glu Arg Leu Ala Glu Asp Glu Glu Ala Glu Gln Ala Gly Asp Gly Pro  
 145              150                   155                   160  
Ala Leu Pro Ala Gly Ser Ser Leu Arg Gln Arg Leu Trp Arg Ala Phe  
 165              170                   175  
Glu Asn Pro His Thr Ser Thr Ala Ala Leu Val Phe Tyr Tyr Val Thr  
 180              185                   190  
Gly Phe Phe Ile Ala Val Ser Val Ile Ala Asn Val Val Glu Thr Ile  
 195              200                   205  
Pro Cys Arg Gly Ser Ala Arg Arg Ser Ser Arg Glu Gln Pro Cys Gly  
 210              215                   220  
Glu Arg Phe Pro Gln Ala Phe Phe Cys Met Asp Thr Ala Cys Val Leu  
 225              230                   235                   240  
Ile Phe Thr Gly Glu Tyr Leu Leu Arg Leu Phe Ala Ala Pro Ser Arg  
 245              250                   255  
Cys Arg Phe Leu Arg Ser Val Met Ser Leu Ile Asp Val Val Ala Ile  
 260              265                   270  
Leu Pro Tyr Tyr Ile Gly Leu Leu Val Pro Lys Asn Asp Asp Val Ser  
 275              280                   285  
Gly Ala Phe Val Thr Leu Arg Val Phe Arg Val Phe Arg Ile Phe Lys  
 290              295                   300  
Phe Ser Arg His Ser Gln Gly Leu Arg Ile Leu Gly Tyr Thr Leu Lys  
 305              310                   315                   320  
Ser Cys Ala Ser Glu Leu Gly Phe Leu Leu Phe Ser Leu Thr Met Ala  
 325              330                   335  
Ile Ile Ile Phe Ala Thr Val Met Phe Tyr Ala Glu Lys Gly Thr Asn  
 340              345                   350  
Lys Thr Asn Phe Thr Ser Ile Pro Ala Ala Phe Trp Tyr Thr Ile Val  
 355              360                   365  
Thr Met Thr Thr Leu Gly Tyr Gly Asp Met Val Pro Ser Thr Ile Ala  
 370              375                   380  
Gly Lys Ile Phe Gly Ser Ile Cys Ser Leu Ser Gly Val Leu Val Ile  
 385              390                   395                   400

Ala Leu Pro Val Pro Val Ile Val Ser Asn Phe Ser Arg Ile Tyr His  
           405                  410                  415  
 Gln Asn Gln Arg Ala Asp Lys Arg Arg Ala Gln Gln Lys Val Arg Leu  
           420                  425                  430  
 Ala Arg Ile Arg Leu Ala Lys Ser Gly Thr Thr Asn Ala Phe Leu Gln  
           435                  440                  445  
 Tyr Lys Gln Asn Gly Gly Leu Glu Asp Ser Gly Ser Gly Glu Glu Gln  
           450                  455                  460  
 Ala Val Cys Val Arg Asn Arg Ser Ala Phe Glu Gln Gln His His His  
           465                  470                  475                  480  
 Leu Leu His Cys Leu Glu Lys Thr Thr Cys His Glu Phe Thr Asp Glu  
           485                  490                  495  
 Leu Thr Phe Ser Glu Ala Leu Gly Ala Val Ser Pro Gly Gly Arg Thr  
           500                  505                  510  
 Ser Arg Ser Thr Ser Val Ser Ser Gln Pro Val Gly Pro Gly Ser Leu  
           515                  520                  525  
 Leu Ser Ser Cys Cys Pro Arg Arg Ala Lys Arg Arg Ala Ile Arg Leu  
           530                  535                  540  
 Ala Asn Ser Thr Ala Ser Val Ser Arg Gly Ser Met Gln Glu Leu Asp  
           545                  550                  555                  560  
 Met Leu Ala Gly Leu Arg Arg Ser His Ala Pro Gln Ser Arg Ser Ser  
           565                  570                  575  
 Leu Asn Ala Lys Pro His Asp Ser Leu Asp Leu Asn Cys Asp Ser Gly  
           580                  585                  590  
 Asp Phe Val Ala Ala Ile Ile Ser Ile Pro Thr Pro Pro Ala Asn Thr  
           595                  600                  605  
 Pro Asp Glu Ser Gln Pro Ser Ser Pro Gly Gly Gly Arg Ala Gly  
           610                  615                  620  
 Ser Thr Leu Arg Asn Ser Ser Leu Gly Thr Pro Cys Leu Phe Pro Glu  
           625                  630                  635                  640  
 Thr Val Lys Ile Ser Ser Leu  
           645                  647

<210> 1113  
 <211> 220  
 <212> Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(220)  
 <223> X = any amino acid or stop code

<400> 1113  
 Gly Trp Gly Lys Pro Phe Lys Asp Trp Thr Thr Gly Gly Gln Asp Thr  
   1              5                  10                  15  
 Gly Gly Glu Pro Ala Leu Leu Val Gly Ala Gly Glu Gly Arg Ala Pro  
   20                  25                  30  
 Arg Leu Asn Cys Pro Ser Gly Gln Ile Arg Ser Pro Gly Pro Gly Asp  
   35                  40                  45  
 Leu Ser Ile Tyr Asp Asn Trp Ile Arg Tyr Phe Asn Arg Ser Ser Pro  
   50                  55                  60  
 Val Tyr Gly Leu Val Pro Arg Ser Lys Thr Ser Ala Arg Ile Tyr Pro  
   65                  70                  75                  80  
 Thr Tyr His Thr Ala Phe Asp Thr Phe Asp Tyr Val Asp Lys Phe Leu  
   85                  90                  95  
 Asp Pro Gly Glu Glu Gly Asp Lys Gly His Pro Glu Thr Arg Thr Gly  
   100                  105                  110  
 Glu Ala Glu Asp Xaa Ala Leu Ala Leu Ser Pro Cys Arg Arg Phe Ser

115	120	125
Ser His Gln Ala Val Ala Arg Thr Ala Gly Ser Val Ile Leu Arg Leu		
130	135	140
Ser Asp Ser Phe Phe Leu Pro Leu Lys Val Ser Asp Tyr Ser Glu Thr		
145	150	155
Leu Arg Ser Phe Leu Gln Ala Ala Gln Gln Asp Leu Gly Ala Leu Leu		
165	170	175
Glu Gln His Ser Ile Ser Leu Gly Pro Leu Val Thr Ala Val Glu Lys		
180	185	190
Phe Glu Ala Glu Ala Ala Ala Leu Gly Gln Arg Ile Ser Thr Leu Gln		
195	200	205
Lys Gly Ser Pro Asp Pro Leu Gln Val Arg Met Leu		
210	215	220

<210> 1114  
<211> 382  
<212>Amino acid  
<213> Homo sapiens

<400> 1114		
Gly Ile Arg Gly Gly Gly Ser Leu Ala Ser Gly Gly Pro Gly Pro Gly		
1	5	10
His Ala Ser Leu Ser Gln Arg Leu Arg Leu Tyr Leu Ala Asp Ser Trp		
20	25	30
Asn Gln Cys Asp Leu Val Ala Leu Thr Cys Phe Leu Leu Gly Val Gly		
35	40	45
Cys Arg Leu Thr Pro Gly Leu Tyr His Leu Gly Arg Thr Val Leu Cys		
50	55	60
Ile Asp Phe Met Val Phe Thr Val Arg Leu Leu His Ile Phe Thr Val		
65	70	75
Asn Lys Gln Leu Gly Pro Lys Ile Val Ile Val Ser Lys Met Met Lys		
85	90	95
Asp Val Phe Phe Leu Phe Phe Leu Gly Val Trp Leu Val Ala Tyr		
100	105	110
Gly Val Ala Thr Glu Gly Leu Leu Arg Pro Arg Asp Ser Asp Phe Pro		
115	120	125
Ser Ile Leu Arg Arg Val Phe Tyr Arg Pro Tyr Leu Gln Ile Phe Gly		
130	135	140
Gln Ile Pro Gln Glu Asp Met Asp Val Ala Leu Met Glu His Ser Asn		
145	150	155
Cys Ser Ser Glu Pro Gly Phe Trp Ala His Pro Pro Gly Ala Gln Ala		
165	170	175
Gly Thr Cys Val Ser Gln Tyr Ala Asn Trp Leu Val Val Leu Leu		
180	185	190
Val Ile Phe Leu Leu Val Ala Asn Ile Leu Leu Val Asn Leu Leu Ile		
195	200	205
Ala Met Phe Ser Tyr Thr Phe Gly Lys Val Gln Gly Asn Ser Asp Leu		
210	215	220
Tyr Trp Lys Ala Gln Arg Tyr Arg Leu Ile Arg Glu Phe His Ser Arg		
225	230	235
Pro Ala Leu Ala Pro Pro Phe Ile Val Ile Ser His Leu Arg Leu Leu		
245	250	255
Leu Arg Gln Leu Cys Arg Arg Pro Arg Ser Pro Gln Pro Ser Ser Pro		
260	265	270
Ala Leu Glu His Phe Arg Val Tyr Leu Ser Lys Glu Ala Glu Arg Lys		
275	280	285
Leu Leu Thr Trp Glu Ser Val His Lys Glu Asn Phe Leu Leu Ala Arg		
290	295	300
Ala Arg Asp Lys Arg Glu Ser Asp Ser Glu Arg Leu Lys Arg Thr Ser		

305	310	315	320
Gln Lys Val Asp Leu Ala Leu Lys Gln Leu Gly His Ile Arg Glu Tyr			
325	330	335	
Glu Gln Arg Leu Lys Val Leu Glu Arg Glu Val Gln Gln Cys Ser Arg			
340	345	350	
Val Leu Gly Trp Val Ala Glu Ala Leu Ser Arg Ser Ala Leu Leu Pro			
355	360	365	
Pro Gly Gly Pro Pro Pro Asp Leu Pro Gly Ser Lys Asp			
370	375	380	382

<210> 1115  
<211> 109  
<212>Amino acid  
<213> Homo sapiens

<400> 1115			
Leu Ile Lys Leu Cys Lys Ser Lys Ala Lys Ser Cys Glu Asn Asp Leu			
1	5	10	15
Glu Met Gly Met Leu Asn Ser Lys Phe Lys Lys Thr Arg Tyr Gln Ala			
20	25	30	
Gly Met Arg Asn Ser Glu Asn Leu Thr Ala Asn Asn Thr Leu Ser Lys			
35	40	45	
Pro Thr Arg Tyr Gln Gly Glu Leu Lys Glu Ile Lys Gln Asp Ile Ser			
50	55	60	
Ser Leu Arg Tyr Glu Leu Leu Glu Lys Ser Gln Ala Thr Gly Glu			
65	70	75	80
Leu Ala Asp Leu Ile Gln Gln Leu Ser Glu Lys Phe Gly Lys Asn Leu			
85	90	95	
Asn Lys Asp His Leu Arg Val Asn Lys Gly Lys Asp Ile			
100	105	109	

<210> 1116  
<211> 679  
<212>Amino acid  
<213> Homo sapiens

<400> 1116			
Leu Pro Leu Leu His Ala Gly Phe Asn Arg Arg Phe Met Glu Asn Ser			
1	5	10	15
Ser Ile Ile Ala Cys Tyr Asn Glu Leu Ile Gln Ile Glu His Gly Glu			
20	25	30	
Val Arg Ser Gln Phe Lys Leu Arg Ala Cys Asn Ser Val Phe Thr Ala			
35	40	45	
Leu Asp His Cys His Glu Ala Ile Glu Ile Thr Ser Asp Asp His Val			
50	55	60	
Ile Gln Tyr Val Asn Pro Ala Phe Glu Arg Met Met Gly Tyr His Lys			
65	70	75	80
Gly Glu Leu Leu Gly Lys Glu Leu Ala Asp Leu Pro Lys Ser Asp Lys			
85	90	95	
Asn Arg Ala Asp Leu Leu Asp Thr Ile Asn Thr Cys Ile Lys Lys Gly			
100	105	110	
Lys Glu Trp Gln Gly Val Tyr Tyr Ala Arg Arg Lys Ser Gly Asp Ser			
115	120	125	
Ile Gln Gln His Val Lys Ile Thr Pro Val Ile Gly Gln Gly Gly Lys			

130	135	140
Ile Arg His Phe Val Ser Leu Lys Lys Leu Cys Cys Thr Thr Asp Asn		
145	150	155
Asn Lys Gln Ile His Lys Ile His Arg Asp Ser Gly Asp Asn Ser Gln		160
165	170	175
Thr Glu Pro His Ser Phe Arg Tyr Lys Asn Arg Arg Lys Glu Ser Ile		
180	185	190
Asp Val Lys Ser Ile Ser Ser Arg Gly Ser Asp Ala Pro Ser Leu Gln		
195	200	205
Asn Arg Arg Tyr Pro Ser Met Ala Arg Ile His Ser Met Thr Ile Gln		
210	215	220
Ala Pro Ile Thr Lys Val Ile Asn Ile Ile Asn Ala Ala Gln Glu Asn		
225	230	235
Ser Pro Val Thr Val Ala Glu Ala Leu Asp Arg Val Leu Glu Ile Leu		240
245	250	255
Arg Thr Thr Glu Leu Tyr Ser Pro Gln Leu Gly Thr Lys Asp Glu Asp		
260	265	270
Pro His Thr Ser Asp Leu Val Gly Gly Leu Met Thr Asp Gly Leu Arg		
275	280	285
Arg Leu Ser Gly Asn Glu Tyr Val Phe Thr Lys Asn Val His Gln Ser		
290	295	300
His Ser His Leu Ala Met Pro Ile Thr Ile Asn Asp Val Pro Pro Cys		
305	310	315
Ile Ser Gln Leu Leu Asp Asn Glu Glu Ser Trp Asp Phe Asn Ile Phe		320
325	330	335
Glu Leu Glu Ala Ile Thr His Lys Arg Pro Leu Val Tyr Leu Gly Leu		
340	345	350
Lys Val Phe Ser Arg Phe Gly Val Cys Glu Phe Leu Asn Cys Ser Glu		
355	360	365
Thr Thr Leu Arg Ala Trp Phe Gln Val Ile Glu Ala Asn Tyr His Ser		
370	375	380
Ser Asn Ala Tyr His Asn Ser Thr His Ala Ala Asp Val Leu His Ala		
385	390	395
Thr Ala Phe Phe Leu Gly Lys Glu Arg Val Lys Gly Ser Leu Asp Gln		400
405	410	415
Leu Asp Glu Val Ala Ala Leu Ile Ala Ala Thr Val His Asp Val Asp		
420	425	430
His Pro Gly Arg Thr Asn Ser Phe Leu Cys Asn Ala Gly Ser Glu Leu		
435	440	445
Ala Val Leu Tyr Asn Asp Thr Ala Val Leu Glu Ser His His Thr Ala		
450	455	460
Leu Ala Phe Gln Leu Thr Val Lys Asp Thr Lys Cys Asn Ile Phe Lys		
465	470	475
Asn Ile Asp Arg Gly Asn His Tyr Arg Thr Leu Arg Gln Ala Ile Ile		480
485	490	495
Asp Met Val Leu Ala Thr Glu Met Thr Lys His Phe Glu His Val Asn		
500	505	510
Lys Phe Val Asn Ser Ile Asn Lys Pro Met Ala Ala Glu Ile Glu Gly		
515	520	525
Ser Asp Cys Glu Cys Asn Pro Ala Gly Lys Asn Phe Pro Glu Asn Gln		
530	535	540
Ile Leu Ile Lys Arg Met Met Ile Lys Cys Ala Asp Val Ala Asn Pro		
545	550	555
Cys Arg Pro Leu Asp Leu Cys Ile Glu Trp Ala Gly Arg Ile Ser Glu		560
565	570	575
Glu Tyr Phe Ala Gln Thr Asp Glu Glu Lys Arg Gln Gly Leu Pro Val		
580	585	590
Val Met Pro Val Phe Asp Arg Asn Thr Cys Ser Ile Pro Lys Ser Gln		
595	600	605
Ile Ser Phe Ile Asp Tyr Phe Ile Thr Asp Met Phe Asp Ala Trp Asp		
610	615	620
Ala Phe Ala His Leu Pro Ala Leu Met Gln His Leu Ala Asp Asn Tyr		
625	630	635
Lys His Trp Lys Thr Leu Asp Asp Leu Lys Cys Lys Ser Leu Arg Leu		640

645	650	655
Pro Ser Asp Arg Leu Lys Pro Ser His Arg Gly Gly Leu Leu Thr Asp		
660	665	670
Lys Gly His Cys Glu Ser Gln		
675	679	

<210> 1117  
<211> 1193  
<212>Amino acid  
<213> Homo sapiens

<400> 1117		
Ala Phe Leu Ser Lys Val Glu Glu Asp Asp Tyr Pro Ser Glu Glu Leu	10	15
1	5	
Leu Glu Asp Glu Asn Ala Ile Asn Ala Lys Arg Ser Lys Glu Lys Asn	25	30
20		
Pro Gly Asn Gln Gly Arg Gln Phe Asp Val Asn Leu Gln Val Pro Asp	45	
35	40	
Arg Ala Val Leu Gly Thr Ile His Pro Asp Pro Glu Ile Glu Glu Ser	60	
50	55	
Lys Gln Glu Thr Ser Met Ile Leu Asp Ser Glu Lys Thr Ser Glu Thr	75	80
65	70	
Ala Ala Lys Gly Val Asn Thr Gly Gly Arg Glu Pro Asn Thr Met Val	95	
85	90	
Glu Lys Glu Arg Pro Leu Ala Asp Lys Lys Ala Gln Arg Pro Phe Glu	110	
100	105	
Arg Ser Asp Phe Ser Asp Ser Ile Lys Ile Gln Thr Pro Glu Leu Gly	125	
115	120	
Glu Val Phe Gln Asn Lys Asp Ser Asp Tyr Leu Lys Asn Asp Asn Pro	140	
130	135	
Glu Glu His Leu Lys Thr Ser Gly Leu Ala Gly Glu Pro Glu Gly Glu	155	160
145	150	
Leu Ser Lys Glu Asp His Glu Asn Thr Glu Lys Tyr Met Gly Thr Glu	170	
165		175
Ser Gln Gly Ser Ala Ala Ala Glu Pro Glu Asp Asp Ser Phe His Trp	190	
180	185	
Thr Pro His Thr Ser Val Glu Pro Gly His Ser Asp Lys Arg Glu Asp	205	
195	200	
Leu Leu Ile Ile Ser Ser Phe Phe Lys Glu Gln Ser Leu Gln Arg	220	
210	215	
Phe Gln Lys Tyr Phe Asn Val His Glu Leu Glu Ala Leu Leu Gln Glu	235	240
225	230	
Met Ser Ser Lys Leu Lys Ser Ala Gln Gln Glu Ser Leu Pro Tyr Asn	250	255
245		
Met Glu Lys Val Leu Asp Lys Val Phe Arg Ala Ser Glu Ser Gln Ile	270	
260	265	
Leu Ser Ile Ala Glu Lys Met Leu Asp Thr Arg Val Ala Glu Asn Arg	285	
275	280	
Asp Leu Gly Met Asn Glu Asn Asn Ile Phe Glu Glu Ala Ala Val Leu	300	
290	295	
Asp Asp Ile Gln Asp Leu Ile Tyr Phe Val Arg Tyr Lys His Ser Thr	315	320
305	310	
Ala Glu Glu Thr Ala Thr Leu Val Met Ala Pro Pro Leu Glu Glu Gly	335	
325	330	
Leu Gly Gly Ala Met Glu Glu Met Gln Pro Leu His Glu Asp Asn Phe	350	
340	345	
Ser Arg Glu Lys Thr Ala Glu Leu Asn Val Gln Val Pro Glu Glu Pro	365	
355	360	
Thr His Leu Asp Gln Arg Val Ile Gly Asp Thr His Ala Ser Glu Val		

370	375	380
Ser Gln Lys Pro Asn Thr Glu Lys Asp Leu Asp Pro Gly Pro Val Thr	385	390
395	400	
Thr Glu Asp Thr Pro Met Asp Ala Ile Asp Ala Asn Lys Gln Pro Glu	405	410
415		
Thr Ala Ala Glu Pro Ala Ser Val Thr Pro Leu Glu Asn Ala Ile	420	425
430		
Leu Leu Ile Tyr Ser Phe Met Phe Tyr Leu Thr Lys Ser Leu Val Ala	435	440
445		
Thr Leu Pro Asp Asp Val Gln Pro Gly Pro Asp Phe Tyr Gly Leu Pro	450	455
460		
Trp Lys Pro Val Phe Ile Thr Ala Phe Leu Gly Ile Ala Ser Phe Ala	465	470
475	480	
Ile Phe Leu Trp Arg Thr Val Leu Val Val Lys Asp Arg Val Tyr Gln	485	490
495		
Val Thr Glu Gln Gln Ile Ser Glu Lys Leu Lys Thr Ile Met Lys Glu	500	505
510		
Asn Thr Glu Leu Val Gln Lys Leu Ser Asn Tyr Glu Gln Lys Ile Lys	515	520
525		
Glu Ser Lys Lys His Val Gln Glu Thr Arg Lys Gln Asn Met Ile Leu	530	535
540		
Ser Asp Glu Ala Ile Lys Tyr Lys Asp Lys Ile Lys Thr Leu Glu Lys	545	550
555	560	
Asn Gln Glu Ile Leu Asp Asp Thr Ala Lys Asn Leu Arg Val Met Leu	565	570
575		
Glu Ser Glu Arg Gln Asn Val Lys Asn Gln Asp Leu Ile Ser Glu	580	585
590		
Asn Lys Ser Ile Glu Lys Leu Lys Asp Val Ile Ser Met Asn Ala	595	600
605		
Ser Glu Phe Ser Glu Val Gln Ile Ala Leu Asn Glu Ala Lys Leu Ser	610	615
620		
Glu Glu Lys Val Lys Ser Glu Cys His Arg Val Gln Glu Glu Asn Ala	625	630
635	640	
Arg Leu Lys Lys Lys Glu Gln Leu Gln Gln Glu Ile Glu Asp Trp	645	650
655		
Ser Lys Leu His Ala Glu Leu Ser Glu Gln Ile Lys Ser Phe Glu Lys	660	665
670		
Ser Gln Lys Asp Leu Glu Val Ala Leu Thr His Lys Asp Asp Asn Ile	675	680
685		
Asn Ala Leu Thr Asn Cys Ile Thr Gln Leu Asn Leu Glu Cys Glu	690	695
700		
Ser Glu Ser Glu Gly Gln Asn Lys Gly Asn Asp Ser Asp Glu Leu	705	710
715	720	
Ala Asn Gly Glu Val Gly Gly Asp Arg Asn Glu Lys Met Lys Asn Gln	725	730
735		
Ile Lys Gln Met Met Asp Val Ser Arg Thr Gln Thr Ala Ile Ser Val	740	745
750		
Val Glu Glu Asp Leu Lys Leu Leu Gln Leu Lys Leu Arg Ala Ser Val	755	760
765		
Ser Thr Lys Cys Asn Leu Glu Asp Gln Val Lys Lys Leu Glu Asp Asp	770	775
780		
Arg Asn Ser Leu Gln Ala Ala Lys Ala Gly Leu Glu Asp Glu Cys Lys	785	790
795	800	
Thr Leu Arg Gln Lys Val Glu Ile Leu Asn Glu Leu Tyr Gln Gln Lys	805	810
815		
Glu Met Ala Leu Gln Lys Lys Leu Ser Gln Glu Glu Tyr Glu Arg Gln	820	825
830		
Glu Arg Glu His Arg Leu Ser Ala Ala Asp Glu Lys Ala Val Ser Ala	835	840
845		
Ala Glu Glu Val Lys Thr Tyr Lys Arg Arg Ile Glu Glu Met Glu Asp	850	855
860		
Glu Leu Gln Lys Thr Glu Arg Ser Phe Lys Asn Gln Ile Ala Thr His	865	870
875	880	
Glu Lys Lys Ala His Glu Asn Trp Leu Lys Ala Arg Ala Glu Arg		

	885	890	895
Ala Ile Ala Glu Lys Lys Arg Glu Ala Ala Asn Leu Arg His Lys Leu	900	905	910
Leu Asp Leu Thr Gln Lys Met Ala Met Leu Gln Glu Glu Pro Val Ile	915	920	925
Val Lys Pro Met Pro Gly Lys Pro Asn Thr Gln Asn Pro Pro Arg Arg	930	935	940
Gly Pro Leu Ser Gln Asn Gly Ser Phe Gly Pro Ser Pro Val Ser Gly	945	950	955
Gly Glu Cys Ser Pro Pro Leu Thr Val Glu Pro Pro Val Arg Pro Leu	965	970	975
Ser Ala Thr Leu Asn Arg Arg Asp Met Pro Arg Ser Glu Phe Gly Ser	980	985	990
Leu Asp Gly Pro Leu Pro His Pro Arg Trp Ser Ala Glu Ala Ser Gly	995	1000	1005
Lys Pro Ser Pro Ser Asp Pro Gly Ser Gly Thr Ala Thr Met Met Asn	1010	1015	1020
Ser Ser Ser Arg Gly Ser Ser Pro Thr Arg Val Leu Asp Glu Gly Lys	1025	1030	1035
Val Asn Met Ala Pro Lys Gly Pro Pro Pro Phe Pro Gly Val Pro Leu	1045	1050	1055
Met Ser Thr Pro Met Gly Gly Pro Val Pro Pro Pro Ile Arg Tyr Gly	1060	1065	1070
Pro Pro Pro Gln Leu Cys Gly Pro Phe Gly Pro Arg Pro Leu Pro Pro	1075	1080	1085
Pro Phe Gly Pro Gly Met Arg Pro Pro Leu Gly Leu Arg Glu Phe Ala	1090	1095	1100
Pro Gly Val Pro Pro Gly Arg Arg Asp Leu Pro Leu His Pro Arg Gly	1105	1110	1115
Phe Leu Pro Gly His Ala Pro Phe Arg Pro Leu Gly Ser Leu Gly Pro	1125	1130	1135
Arg Glu Tyr Phe Ile Pro Gly Thr Arg Leu Pro Pro Pro Thr His Gly	1140	1145	1150
Pro Gln Glu Tyr Pro Pro Pro Pro Ala Val Arg Asp Leu Leu Pro Ser	1155	1160	1165
Gly Ser Arg Asp Glu Pro Pro Ala Ser Gln Ser Thr Ser Gln Asp	1170	1175	1180
Cys Ser Gln Ala Leu Lys Gln Ser Pro	1185	1190	1193

<210> 1118  
 <211> 981  
 <212>Amino acid  
 <213> Homo sapiens

	<400> 1118		
Met Ala Ala Asp Ser Glu Pro Glu Ser Glu Val Phe Glu Ile Thr Asp	1	5	10
Phe Thr Thr Ala Ser Glu Trp Glu Arg Phe Ile Ser Lys Val Glu Glu	20	25	30
Val Leu Asn Asp Trp Lys Leu Ile Gly Asn Ser Leu Gly Lys Pro Leu	35	40	45
Glu Lys Gly Ile Phe Thr Ser Gly Thr Trp Glu Glu Lys Ser Asp Glu	50	55	60
Ile Ser Phe Ala Asp Phe Lys Phe Ser Val Thr His His Tyr Leu Val	65	70	75
Gln Glu Ser Thr Asp Lys Glu Gly Lys Asp Glu Leu Leu Glu Asp Val	85	90	95
Val Pro Gln Ser Met Gln Asp Leu Leu Gly Met Asn Asn Asp Phe Pro			

100	105	110
Pro Arg Ala His Cys Leu Val Arg Trp Tyr Gly Leu Arg Glu Phe Val		
115	120	125
Val Ile Ala Pro Ala Ala His Ser Asp Ala Val Leu Ser Glu Ser Lys		
130	135	140
Cys Asn Leu Leu Ser Ser Val Ser Ile Ala Leu Gly Asn Thr Gly		
145	150	155
Cys Gln Val Pro Leu Phe Val Gln Ile His His Lys Trp Arg Arg Met		160
165	170	175
Tyr Val Gly Cys Gln Gly Pro Gly Val Arg Thr Asp Phe Glu Met		
180	185	190
Val His Leu Arg Lys Val Pro Asn Gln Tyr Thr His Leu Ser Gly Leu		
195	200	205
Leu Asp Ile Phe Lys Ser Lys Ile Gly Cys Pro Leu Thr Pro Leu Pro		
210	215	220
Pro Val Ser Ile Ala Ile Arg Phe Thr Tyr Val Leu Gln Asp Trp Gln		
225	230	235
Gln Tyr Phe Trp Pro Gln Gln Pro Pro Asp Ile Asp Ala Leu Val Gly		240
245	250	255
Gly Glu Val Gly Gly Leu Glu Phe Gly Lys Leu Pro Phe Gly Ala Cys		
260	265	270
Glu Asp Pro Ile Ser Glu Leu His Leu Ala Thr Thr Trp Pro His Leu		
275	280	285
Thr Glu Gly Ile Ile Val Asp Asn Asp Val Tyr Ser Asp Leu Asp Pro		
290	295	300
Ile Gln Ala Pro His Trp Ser Val Arg Val Arg Lys Ala Glu Asn Pro		
305	310	315
Gln Cys Leu Leu Gly Asp Phe Val Thr Glu Phe Phe Lys Ile Cys Arg		320
325	330	335
Arg Lys Glu Ser Thr Asp Glu Ile Leu Gly Arg Ser Ala Phe Glu Glu		
340	345	350
Glu Gly Lys Glu Thr Ala Asp Ile Thr His Ala Leu Ser Lys Leu Thr		
355	360	365
Glu Pro Ala Ser Val Pro Ile His Lys Leu Ser Val Ser Asn Met Val		
370	375	380
His Thr Ala Lys Lys Ile Arg Lys His Arg Gly Val Glu Ser		
385	390	395
Pro Leu Asn Asn Asp Val Leu Asn Thr Ile Leu Leu Phe Leu Phe Pro		400
405	410	415
Asp Ala Val Ser Glu Lys Pro Leu Asp Gly Thr Thr Ser Thr Asp Asn		
420	425	430
Asn Asn Pro Pro Ser Glu Ser Glu Asp Tyr Asn Leu Tyr Asn Gln Phe		
435	440	445
Lys Ser Ala Pro Ser Asp Ser Leu Thr Tyr Lys Leu Ala Leu Cys Leu		
450	455	460
Cys Met Ile Asn Phe Tyr His Gly Gly Leu Lys Gly Val Ala His Leu		
465	470	475
Trp Gln Glu Phe Val Leu Glu Met Arg Phe Arg Trp Glu Asn Asn Phe		480
485	490	495
Leu Ile Pro Gly Leu Ala Ser Gly Pro Pro Asp Leu Arg Cys Cys Leu		
500	505	510
Leu His Gln Lys Leu Gln Met Leu Asn Cys Cys Ile Glu Arg Lys Lys		
515	520	525
Ala Arg Asp Glu Gly Lys Lys Thr Ser Ala Ser Asp Val Thr Asn Ile		
530	535	540
Tyr Pro Gly Asp Ala Gly Lys Ala Gly Asp Gln Leu Val Pro Asp Asn		
545	550	555
Leu Lys Glu Thr Asp Lys Glu Lys Gly Glu Val Gly Lys Ser Trp Asp		560
565	570	575
Ser Trp Ser Asp Ser Glu Glu Glu Phe Phe Glu Cys Leu Ser Asp Thr		
580	585	590
Glu Glu Leu Lys Gly Asn Gly Gln Glu Ser Gly Lys Lys Gly Gly Pro		
595	600	605
Lys Glu Met Ala Asn Leu Arg Pro Glu Gly Arg Leu Tyr Gln His Gly		

610	615	620		
Lys Leu Thr Leu Leu His Asn Gly Glu Pro Leu Tyr Ile Pro Val Thr	625	630	635	640
Gln Glu Pro Ala Pro Met Thr Glu Asp Leu Leu Glu Glu Gln Ser Glu	645	650	655	
Val Leu Ala Lys Leu Gly Thr Ser Ala Glu Gly Ala His Leu Arg Ala	660	665	670	
Arg Met Gln Ser Ala Cys Leu Leu Ser Asp Met Glu Ser Phe Lys Ala	675	680	685	
Ala Asn Pro Gly Cys Ser Leu Glu Asp Phe Val Arg Trp Tyr Ser Pro	690	695	700	
Arg Asp Tyr Ile Glu Glu Glu Val Ile Asp Glu Lys Gly Asn Val Val	705	710	715	720
Leu Lys Gly Glu Leu Ser Ala Arg Met Lys Ile Pro Ser Asn Met Trp	725	730	735	
Val Glu Ala Trp Glu Thr Ala Lys Pro Ile Pro Ala Arg Arg Gln Arg	740	745	750	
Arg Leu Phe Asp Asp Thr Arg Glu Ala Glu Lys Val Leu His Tyr Leu	755	760	765	
Ala Ile Gln Lys Pro Ala Asp Leu Ala Arg His Leu Leu Pro Cys Val	770	775	780	
Ile His Ala Ala Val Leu Lys Val Lys Glu Glu Ser Leu Glu Asn	785	790	795	800
Ile Ser Ser Val Lys Lys Ile Ile Lys Glu Ile Ile Ser His Ser Ser	805	810	815	
Lys Val Leu His Phe Pro Asn Pro Glu Asp Lys Lys Leu Glu Glu Ile	820	825	830	
Ile His Gln Ile Thr Asn Val Glu Ala Leu Ile Ala Arg Ala Arg Ser	835	840	845	
Leu Lys Ala Lys Phe Gly Thr Glu Lys Cys Glu Gln Glu Glu Lys	850	855	860	
Glu Asp Leu Glu Arg Phe Val Ser Cys Leu Leu Glu Gln Pro Glu Val	865	870	875	880
Leu Val Thr Gly Ala Gly Arg Gly His Ala Gly Arg Ile Ile His Lys	885	890	895	
Leu Phe Val Asn Ala Gln Arg Ala Ala Met Thr Pro Pro Glu Glu	900	905	910	
Glu Leu Lys Arg Met Gly Ser Pro Glu Glu Arg Arg Gln Asn Ser Val	915	920	925	
Ser Asp Phe Pro Pro Pro Ala Gly Arg Glu Phe Ile Leu Arg Thr Thr	930	935	940	
Val Pro Arg Pro Ala Pro Tyr Ser Lys Ala Leu Pro Gln Arg Met Tyr	945	950	955	960
Ser Val Leu Thr Lys Glu Asp Phe Arg Leu Ala Gly Ala Phe Ser Ser	965	970	975	
Asp Thr Ser Phe Phe	980	981		

<210> 1119  
 <211> 554  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1119				
Ser Pro Thr Arg Thr Gly Asp Arg Ser Val Ser Leu Ile Val Phe Leu	1	5	10	15
Thr Glu Gly Lys Pro Thr Val Gly Glu Thr His Thr Leu Lys Ile Leu	20	25	30	
Asn Asn Thr Arg Glu Ala Ala Arg Gly Gln Val Cys Ile Phe Thr Ile				

Gly	Ile	Gly	Asn	Asp	Val	Asp	Phe	Arg	Leu	Leu	Glu	Lys	Leu	Ser	Leu	
35						40					45					
Glu	Asn	Cys	Gly	Leu	Thr	Arg	Arg	Val	His	Glu	Glu	Glu	Asp	Ala	Gly	
50						55				60						
Ser	Gln	Leu	Ile	Gly	Phe	Tyr	Asp	Glu	Ile	Arg	Thr	Pro	Leu	Leu	Ser	
65						70				75					80	
Asp	Ile	Arg	Ile	Asp	Tyr	Pro	Pro	Ser	Ser	Val	Val	Gln	Ala	Thr	Lys	
85										90					95	
Thr	Leu	Phe	Pro	Asn	Tyr	Pho	Asn	Gly	Ser	Glu	Ile	Ile	Ile	Ala	Gly	
115									120					125		
Lys	Leu	Val	Asp	Arg	Lys	Leu	Asp	His	Leu	His	Val	Glu	Val	Thr	Ala	
130									135					140		
Ser	Asn	Ser	Lys	Phe	Ile	Ile	Leu	Lys	Thr	Asp	Val	Pro	Val	Arg		
145										155					160	
Pro	Gln	Lys	Ala	Gly	Lys	Asp	Val	Thr	Gly	Ser	Pro	Arg	Pro	Gly	Gly	
165										170					175	
Asp	Gly	Glu	Gly	Asp	Thr	Asn	His	Ile	Glu	Arg	Leu	Trp	Ser	Tyr	Leu	
180									185					190		
Thr	Thr	Lys	Glu	Leu	Leu	Ser	Ser	Trp	Leu	Gln	Ser	Asp	Asp	Glu	Pro	
195									200					205		
Glu	Lys	Glu	Arg	Leu	Arg	Ala	Gln	Arg	Ala	Gln	Ala	Leu	Ala	Val	Ser	
210									215					220		
Arg	Phe	Leu	Thr	Pro	Phe	Thr	Ser	Met	Lys	Leu	Arg	Gly	Pro	Val	Pro	
225									230					235		240
Arg	Met	Asp	Gly	Leu	Glu	Glu	Ala	His	Gly	Met	Ser	Ala	Ala	Met	Gly	
245										250					255	
Pro	Glu	Pro	Val	Val	Gln	Ser	Val	Arg	Gly	Ala	Gly	Thr	Gln	Pro	Gly	
260									265					270		
Pro	Leu	Leu	Lys	Lys	Pro	Tyr	Gln	Pro	Arg	Ile	Lys	Ile	Ser	Lys	Thr	
275									280					285		
Ser	Val	Asp	Gly	Asp	Pro	His	Phe	Val	Val	Asp	Phe	Pro	Leu	Ser	Arg	
290									295					300		
Leu	Thr	Val	Cys	Phe	Asn	Ile	Asp	Gly	Gln	Pro	Gly	Asp	Ile	Leu	Arg	
305									310					315		320
Leu	Val	Ser	Asp	His	Arg	Asp	Ser	Gly	Val	Thr	Val	Asn	Gly	Glu	Leu	
325									330					335		
Ile	Gly	Ala	Pro	Ala	Pro	Pro	Asn	Gly	His	Lys	Lys	Gln	Arg	Thr	Tyr	
340									345					350		
Leu	Arg	Thr	Ile	Thr	Ile	Leu	Ile	Asn	Lys	Pro	Glu	Arg	Ser	Tyr	Leu	
355									360					365		
Glu	Ile	Thr	Pro	Ser	Arg	Val	Ile	Leu	Asp	Gly	Gly	Asp	Arg	Leu	Val	
370									375					380		
Leu	Pro	Cys	Asn	Gln	Ser	Val	Val	Val	Gly	Ser	Trp	Gly	Leu	Glu	Val	
385									390					395		400
Ser	Val	Ser	Ala	Asn	Ala	Asn	Val	Thr	Val	Thr	Ile	Gln	Gly	Ser	Ile	
405									410					415		
Ala	Phe	Val	Ile	Leu	Ile	His	Leu	Tyr	Lys	Lys	Pro	Ala	Pro	Phe	Gln	
420									425					430		
Arg	His	His	Leu	Gly	Phe	Tyr	Ile	Ala	Asn	Ser	Glu	Gly	Leu	Ser	Ser	
435									440					445		
Asn	Cys	His	Gly	Leu	Leu	Gly	Gln	Phe	Leu	Asn	Gln	Asp	Ala	Arg	Leu	
450									455					460		
Thr	Glu	Asp	Pro	Ala	Gly	Pro	Ser	Gln	Asn	Leu	Thr	His	Pro	Leu	Leu	
465									470					475		480
Leu	Gln	Val	Gly	Glu	Gly	Pro	Glu	Ala	Val	Leu	Thr	Val	Lys	Gly	His	
485									490					495		
Gln	Val	Pro	Val	Val	Trp	Lys	Gln	Arg	Lys	Ile	Tyr	Asn	Gly	Glu	Glu	
500									505					510		
Gln	Ile	Asp	Cys	Trp	Phe	Ala	Arg	Asn	Ala	Ala	Lys	Leu	Ile	Asp		
515									520					525		
Gly	Glu	Tyr	Lys	Asp	Tyr	Leu	Ala	Ser	His	Pro	Phe	Asp	Thr	Gly	Met	
530									535					540		
Thr	Leu	Gly	Gln	Gly	Met	Ser	Arg	Glu	Leu							

545	550	554
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<210> 1120  
<211> 107  
<212>Amino acid  
<213> Homo sapiens

<400> 1120  
Val Pro Leu Glu Ser Leu Ser Cys Ser His Ala Asp Asn Trp Lys Gln  
1                   5                   10                   15  
Glu Leu Thr Lys Phe Ile Ser Pro Asp Gln Leu Pro Val Glu Phe Gly  
20                 25                 30  
Gly Thr Met Thr Asp Pro Asp Gly Asn Pro Lys Cys Leu Thr Lys Ile  
35                 40                 45  
Asn Tyr Gly Gly Glu Val Pro Lys Ser Tyr Tyr Leu Cys Lys Gln Val  
50                 55                 60  
Arg Leu Gln Tyr Glu His Thr Arg Ser Val Gly Arg Gly Ser Ser Leu  
65                 70                 75                 80  
Gln Val Glu Asn Glu Ile Leu Phe Pro Gly Cys Val Leu Arg Cys Pro  
85                 90                 95  
Glu Val Leu Gln His Leu Gln Pro Gly Ser Phe  
100               105               107

<210> 1121  
<211> 1241  
<212>Amino acid  
<213> Homo sapiens

<400> 1121  
Pro Ala Ala Pro Glu His Thr Asp Pro Ser Glu Pro Arg Gly Ser Val  
1                 5                 10                 15  
Ser Cys Cys Ser Leu Leu Arg Gly Leu Ser Ser Gly Trp Ser Ser Pro  
20                 25                 30  
Leu Leu Pro Ala Pro Val Cys Asn Pro Asn Lys Ala Ile Phe Thr Val  
35                 40                 45  
Asp Ala Lys Thr Thr Glu Ile Leu Val Ala Asn Asp Lys Ala Cys Gly  
50                 55                 60  
Leu Leu Gly Tyr Ser Ser Gln Asp Leu Ile Gly Gln Lys Leu Thr Gln  
65                 70                 75                 80  
Phe Phe Leu Arg Ser Asp Ser Asp Val Val Glu Ala Leu Ser Glu Glu  
85                 90                 95  
His Met Glu Ala Asp Gly His Ala Ala Val Val Phe Gly Thr Val Val  
100               105               110  
Asp Ile Ile Ser Arg Ser Gly Glu Lys Ile Pro Val Ser Val Trp Met  
115               120               125  
Lys Arg Met Arg Gln Glu Arg Arg Leu Cys Cys Val Val Val Leu Glu  
130               135               140  
Pro Val Glu Arg Val Ser Thr Trp Val Ala Phe Gln Ser Asp Gly Thr  
145               150               155               160  
Val Thr Ser Cys Asp Ser Leu Phe Ala His Leu His Gly Tyr Val Ser  
165               170               175  
Gly Glu Asp Val Ala Gly Gln His Ile Thr Asp Leu Ile Pro Ser Val  
180               185               190  
Gln Leu Pro Pro Ser Gly Gln His Ile Pro Lys Asn Leu Lys Ile Gln

195	200	205
Arg Ser Val Gly Arg Ala Arg Asp Gly Thr Thr Phe Pro Leu Ser Leu		
210	215	220
Lys Leu Lys Ser Gln Pro Ser Ser Glu Glu Ala Thr Thr Gly Glu Ala		
225	230	235
Ala Pro Val Ser Gly Tyr Arg Ala Ser Val Trp Val Phe Cys Thr Ile		240
245	250	255
Ser Gly Leu Ile Thr Leu Leu Pro Asp Gly Thr Ile His Gly Ile Asn		
260	265	270
His Ser Phe Ala Leu Thr Leu Phe Gly Tyr Gly Lys Thr Glu Leu Leu		275
275	280	285
Gly Lys Asn Ile Thr Phe Leu Ile Pro Gly Phe Tyr Ser Tyr Met Asp		
290	295	300
Leu Ala Tyr Asn Ser Ser Leu Gln Leu Pro Asp Leu Ala Ser Cys Leu		
305	310	315
Asp Val Gly Asn Glu Ser Gly Cys Gly Glu Arg Thr Leu Asp Pro Trp		320
325	330	335
Gln Gly Gln Asp Pro Ala Glu Gly Gly Gln Asp Pro Arg Ile Asn Val		
340	345	350
Val Leu Ala Gly Gly His Val Val Pro Arg Asp Glu Ile Arg Lys Leu		
355	360	365
Met Glu Ser Gln Asp Ile Phe Thr Gly Thr Gln Thr Glu Leu Ile Ala		
370	375	380
Gly Gly Gln Leu Leu Ser Cys Leu Ser Pro Gln Pro Ala Pro Gly Val		
385	390	395
Asp Asn Val Pro Glu Gly Ser Leu Pro Val His Gly Glu Gln Ala Leu		400
405	410	415
Pro Lys Asp Gln Gln Ile Thr Ala Leu Gly Arg Glu Glu Pro Val Ala		
420	425	430
Ile Glu Ser Pro Gly Gln Asp Leu Leu Gly Glu Ser Arg Ser Glu Pro		
435	440	445
Val Asp Val Lys Pro Phe Ala Ser Cys Glu Asp Ser Glu Ala Pro Val		
450	455	460
Pro Ala Glu Asp Gly Gly Ser Asp Ala Gly Met Cys Gly Leu Cys Gln		
465	470	475
Lys Ala Gln Leu Glu Arg Met Gly Val Ser Gly Pro Ser Gly Ser Asp		480
485	490	495
Leu Trp Ala Gly Ala Ala Val Ala Lys Pro Gln Ala Lys Gly Gln Leu		
500	505	510
Ala Gly Gly Ser Leu Leu Met His Cys Pro Cys Tyr Gly Ser Glu Trp		
515	520	525
Gly Leu Trp Trp Arg Ser Gln Asp Leu Ala Pro Ser Pro Ser Gly Met		
530	535	540
Ala Gly Leu Ser Phe Gly Thr Pro Thr Leu Asp Glu Pro Trp Leu Gly		
545	550	555
Val Glu Asn Asp Arg Glu Glu Leu Gln Thr Cys Leu Ile Lys Glu Gln		560
565	570	575
Leu Ser Gln Leu Ser Leu Ala Gly Ala Leu Asp Val Pro His Ala Glu		
580	585	590
Leu Val Pro Thr Glu Cys Gln Ala Val Thr Ala Pro Val Ser Ser Cys		
595	600	605
Asp Leu Gly Gly Arg Asp Leu Cys Gly Gly Cys Thr Gly Ser Ser Ser		
610	615	620
Ala Cys Tyr Ala Leu Ala Thr Asp Leu Pro Gly Gly Leu Glu Ala Val		
625	630	635
Glu Ala Gln Glu Val Asp Val Asn Ser Phe Ser Trp Asn Leu Lys Glu		640
645	650	655
Leu Phe Phe Ser Asp Gln Thr Asp Gln Thr Ser Ser Asn Cys Ser Cys		
660	665	670
Ala Thr Ser Glu Leu Arg Glu Thr Pro Ser Ser Leu Ala Val Gly Ser		
675	680	685
Asp Pro Asp Val Gly Ser Leu Gln Glu Gln Gly Ser Cys Val Leu Asp		
690	695	700
Asp Arg Glu Leu Leu Leu Leu Thr Gly Thr Cys Val Asp Leu Gly Gln		

705	710	715	720
Gly Arg Arg Phe Arg Glu Ser Cys Val Gly His Asp Pro Thr Glu Pro			
725	730	735	
Leu Glu Val Cys Leu Val Ser Ser Glu His Tyr Ala Ala Ser Asp Arg			
740	745	750	
Glu Ser Pro Gly His Val Pro Ser Thr Leu Asp Ala Gly Pro Glu Asp			
755	760	765	
Thr Cys Pro Ser Ala Glu Glu Pro Arg Leu Asn Val Gln Val Thr Ser			
770	775	780	
Thr Pro Val Ile Val Met Arg Gly Ala Ala Gly Leu Gln Arg Glu Ile			
785	790	795	800
Gln Glu Gly Ala Tyr Ser Gly Ser Cys Tyr His Arg Asp Gly Leu Arg			
805	810	815	
Leu Ser Ile Gln Phe Glu Val Arg Arg Val Glu Leu Gln Gly Pro Thr			
820	825	830	
Pro Leu Phe Cys Cys Trp Leu Val Lys Asp Leu Leu His Ser Gln Arg			
835	840	845	
Asp Ser Ala Ala Arg Thr Arg Leu Phe Leu Ala Ser Leu Pro Gly Ser			
850	855	860	
Thr His Ser Thr Ala Ala Glu Leu Thr Gly Pro Ser Leu Val Glu Val			
865	870	875	880
Leu Arg Ala Arg Pro Trp Phe Glu Glu Pro Pro Lys Ala Val Glu Leu			
885	890	895	
Glu Gly Leu Ala Ala Cys Glu Gly Glu Tyr Ser Gln Lys Tyr Ser Thr			
900	905	910	
Met Ser Pro Leu Gly Ser Gly Ala Phe Gly Phe Val Trp Thr Ala Val			
915	920	925	
Asp Lys Glu Lys Asn Lys Glu Val Val Val Lys Phe Ile Lys Lys Glu			
930	935	940	
Lys Val Leu Glu Asp Cys Trp Ile Glu Asp Pro Lys Leu Gly Lys Val			
945	950	955	960
Thr Leu Glu Ile Ala Ile Leu Ser Arg Val Glu His Ala Asn Ile Ile			
965	970	975	
Lys Val Leu Asp Ile Phe Glu Asn Gln Gly Phe Phe Gln Leu Val Met			
980	985	990	
Glu Lys His Gly Ser Gly Leu Asp Leu Phe Ala Phe Ile Asp Arg His			
995	1000	1005	
Pro Arg Leu Asp Glu Pro Leu Ala Ser Tyr Ile Phe Arg Gln Val Arg			
1010	1015	1020	
Ala Gln Gln Ser Arg Leu Val Ser Ala Val Gly Tyr Leu Arg Leu Lys			
1025	1030	1035	1040
Asp Ile Ile His Arg Asp Ile Lys Asp Glu Asn Ile Val Ile Ala Glu			
1045	1050	1055	
Asp Phe Thr Ile Lys Leu Ile Asp Phe Gly Ser Ala Ala Tyr Leu Glu			
1060	1065	1070	
Arg Gly Lys Leu Phe Tyr Thr Phe Cys Gly Thr Ile Glu Tyr Cys Ala			
1075	1080	1085	
Pro Glu Val Leu Met Gly Asn Pro Tyr Arg Gly Pro Glu Leu Glu Met			
1090	1095	1100	
Trp Ser Leu Gly Val Thr Leu Tyr Thr Leu Val Phe Glu Glu Asn Pro			
1105	1110	1115	1120
Phe Cys Glu Leu Glu Glu Thr Val Glu Ala Ala Ile His Pro Pro Tyr			
1125	1130	1135	
Leu Val Ser Lys Glu Leu Met Ser Leu Val Ser Gly Leu Leu Gln Pro			
1140	1145	1150	
Val Pro Glu Arg Arg Thr Thr Leu Glu Lys Leu Val Thr Asp Pro Trp			
1155	1160	1165	
Val Thr Glu Pro Val Asn Leu Ala Asp Tyr Thr Trp Glu Glu Val Phe			
1170	1175	1180	
Arg Val Asn Lys Pro Glu Ser Gly Val Leu Ser Ala Ala Ser Leu Glu			
1185	1190	1195	1200
Met Gly Asn Arg Ser Leu Ser Asp Val Ala Gln Ala Gln Glu Leu Cys			
1205	1210	1215	
Gly Gly Pro Val Pro Gly Glu Ala Pro Asn Gly Gln Gly Cys Leu His			

1220	1225	1230
Pro Gly Asp Pro Arg Leu Leu Thr Ser		
1235	12401241	

<210> 1122  
<211> 395  
<212>Amino acid  
<213> Homo sapiens

<400> 1122  
Pro Gly Thr Ser Ala Ala Thr Cys Arg Phe Leu Ser Pro Pro Val Ile  
1               5               10               15  
Ser Leu Ser Phe Thr Gly Leu Cys Ile Ser Asp Leu Val Val Ala Val  
20               25               30  
Asn Gly Val Trp Ile Leu Val Glu Thr Phe Met Leu Lys Gly Gly Asn  
35               40               45  
Phe Phe Ser Lys His Val Pro Trp Ser Tyr Leu Val Phe Leu Thr Ile  
50               55               60  
Tyr Gly Val Glu Leu Phe Leu Lys Val Ala Gly Leu Gly Pro Val Glu  
65               70               75               80  
Tyr Leu Ser Ser Gly Trp Asn Leu Phe Asp Phe Ser Val Thr Val Phe  
85               90               95  
Ala Phe Leu Gly Leu Leu Ala Leu Ala Leu Asn Met Glu Pro Phe Tyr  
100              105              110  
Phe Ile Val Val Leu Arg Pro Leu Gln Leu Leu Arg Leu Phe Lys Leu  
115              120              125  
Lys Glu Arg Tyr Arg Asn Val Leu Asp Thr Met Phe Glu Leu Leu Pro  
130              135              140  
Arg Met Ala Ser Leu Gly Leu Thr Leu Leu Ile Phe Tyr Tyr Ser Phe  
145              150              155              160  
Ala Ile Val Gly Met Glu Phe Phe Cys Gly Ile Val Phe Pro Asn Cys  
165              170              175  
Cys Asn Thr Ser Thr Val Ala Asp Ala Tyr Arg Trp Arg Asn His Thr  
180              185              190  
Val Gly Asn Arg Thr Val Val Glu Glu Gly Tyr Tyr Tyr Leu Asn Asn  
195              200              205  
Phe Asp Asn Ile Leu Asn Ser Phe Val Thr Leu Phe Glu Leu Thr Val  
210              215              220  
Val Asn Asn Trp Tyr Ile Ile Met Glu Gly Val Thr Ser Gln Thr Ser  
225              230              235              240  
His Trp Ser Arg Leu Tyr Phe Met Thr Phe Tyr Ile Val Thr Met Val  
245              250              255  
Val Met Thr Ile Ile Val Ala Phe Ile Leu Glu Ala Phe Val Phe Arg  
260              265              270  
Met Asn Tyr Ser Arg Lys Asn Gln Asp Ser Glu Val Asp Gly Gly Ile  
275              280              285  
Thr Leu Glu Lys Glu Ile Ser Lys Glu Glu Leu Val Ala Val Leu Glu  
290              295              300  
Leu Tyr Arg Glu Ala Arg Gly Ala Ser Ser Asp Val Thr Arg Leu Leu  
305              310              315              320  
Glu Thr Leu Ser Gln Met Glu Arg Tyr Gln Gln His Ser Met Val Phe  
325              330              335  
Leu Gly Arg Arg Ser Arg Thr Lys Ser Asp Leu Ser Leu Lys Met Tyr  
340              345              350  
Gln Glu Glu Ile Gln Glu Trp Tyr Glu Glu His Ala Arg Glu Gln Glu  
355              360              365  
Gln Gln Arg Gln Leu Ser Ser Ser Ala Ala Pro Ala Ala Gln Gln Pro  
370              375              380  
Pro Gly Ser Arg Gln Arg Ser Gln Thr Val Thr

385

390

395

<210> 1123  
<211> 328  
<212>Amino acid  
<213> Homo sapiens

<400> 1123  
Leu Ala Gly Val Gly Thr Gln Ala Pro Pro Arg Arg Pro Gly Gly Glu  
1 5 10 15  
Met Ala Ala Gly Gln Asn Gly His Glu Glu Trp Val Gly Ser Ala Tyr  
20 25 30  
Leu Phe Val Glu Ser Ser Leu Asp Lys Val Val Leu Ser Asp Ala Tyr  
35 40 45  
Ala His Pro Gln Gln Lys Val Ala Val Tyr Arg Ala Leu Gln Ala Ala  
50 55 60  
Leu Ala Glu Ser Gly Gly Ser Pro Asp Val Leu Gln Met Leu Lys Ile  
65 70 75 80  
His Arg Ser Asp Pro Gln Leu Ile Val Gln Leu Arg Phe Cys Gly Arg  
85 90 95  
Gln Pro Cys Gly Arg Phe Leu Arg Ala Tyr Arg Glu Gly Ala Leu Arg  
100 105 110  
Ala Ala Leu Gln Arg Ser Leu Ala Ala Leu Ala Gln His Ser Val  
115 120 125  
Pro Leu Gln Leu Asp Leu Arg Ala Gly Ala Glu Arg Leu Glu Ala Leu  
130 135 140  
Leu Ala Asp Glu Glu Arg Cys Leu Ser Cys Ile Leu Ala Gln Gln Pro  
145 150 155 160  
Asp Arg Leu Arg Asp Glu Glu Leu Ala Glu Leu Glu Asp Ala Leu Arg  
165 170 175  
Asn Leu Lys Cys Gly Ser Gly Ala Arg Gly Gly Asp Gly Glu Val Ala  
180 185 190  
Ser Ala Pro Leu Gln Pro Pro Val Pro Ser Leu Ser Glu Val Lys Pro  
195 200 205  
Pro Pro Pro Pro Pro Ala Gln Thr Phe Leu Phe Gln Gly Gln Pro  
210 215 220  
Val Val Asn Arg Pro Leu Ser Leu Lys Asp Gln Gln Thr Phe Ala Arg  
225 230 235 240  
Ser Val Gly Leu Lys Trp Arg Lys Val Gly Arg Ser Leu Gln Arg Gly  
245 250 255  
Cys Arg Ala Leu Arg Asp Pro Ala Leu Asp Ser Leu Ala Tyr Glu Tyr  
260 265 270  
Glu Arg Glu Gly Leu Tyr Glu Gln Ala Phe Gln Leu Leu Arg Arg Phe  
275 280 285  
Val Gln Ala Glu Gly Arg Arg Ala Thr Leu Gln Arg Leu Val Glu Ala  
290 295 300  
Leu Glu Glu Asn Glu Leu Thr Ser Leu Ala Glu Asp Leu Leu Gly Leu  
305 310 315 320  
Thr Asp Pro Asn Gly Gly Leu Ala  
325 328

<210> 1124  
<211> 667  
<212>Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature

<222> (1)...(667)  
 <223> X = any amino acid or stop code

<400> 1124  
 Ser Ser Lys Pro Lys Leu Lys Lys Arg Phe Ser Leu Arg Ser Val Gly  
 1 5 10 15  
 Arg Ser Val Arg Gly Ser Val Arg Gly Ile Leu Gln Trp Arg Gly Thr  
 20 25 30  
 Val Asp Pro Pro Ser Ser Ala Gly Pro Leu Glu Thr Ser Ser Gly Pro  
 35 40 45  
 Pro Val Leu Gly Gly Asn Ser Asn Ser Asn Ser Gly Gly Ala Gly  
 50 55 60  
 Thr Val Gly Arg Gly Leu Val Ser Asp Gly Thr Ser Pro Gly Glu Arg  
 65 70 75 80  
 Trp Thr His Arg Phe Glu Arg Leu Arg Leu Ser Arg Gly Gly Gly Ala  
 85 90 95  
 Leu Lys Asp Gly Ala Gly Met Val Gln Arg Glu Glu Leu Leu Ser Phe  
 100 105 110  
 Met Gly Ala Glu Glu Ala Ala Pro Asp Pro Ala Gly Val Gly Arg Gly  
 115 120 125  
 Gly Gly Val Ala Gly Pro Pro Ser Gly Gly Gly Gln Pro Gln Trp  
 130 135 140  
 Gln Lys Cys Arg Leu Leu Leu Arg Ser Glu Gly Glu Gly Gly Gly  
 145 150 155 160  
 Ser Arg Leu Glu Phe Phe Val Pro Pro Lys Ala Ser Arg Pro Arg Leu  
 165 170 175  
 Ser Ile Pro Cys Ser Ser Ile Thr Asp Val Arg Thr Thr Ala Leu  
 180 185 190  
 Glu Met Pro Asp Arg Glu Asn Thr Phe Val Val Lys Val Glu Gly Pro  
 195 200 205  
 Ser Glu Tyr Ile Met Glu Thr Val Asp Ala Gln His Val Lys Ala Trp  
 210 215 220  
 Val Ser Asp Ile Gln Glu Cys Leu Ser Pro Gly Pro Cys Pro Ala Thr  
 225 230 235 240  
 Ser Pro Arg Pro Met Thr Leu Pro Leu Ala Pro Gly Thr Ser Phe Leu  
 245 250 255  
 Thr Arg Glu Asn Thr Asp Ser Leu Glu Leu Ser Cys Leu Asn His Ser  
 260 265 270  
 Glu Ser Leu Pro Ser Gln Asp Leu Leu Leu Gly Pro Ser Glu Ser Asn  
 275 280 285  
 Asp Arg Leu Ser Gln Gly Ala Tyr Gly Gly Leu Ser Asp Arg Pro Ser  
 290 295 300  
 Ala Ser Ile Ser Pro Ser Ser Ala Ser Ile Ala Ala Ser His Phe Asp  
 305 310 315 320  
 Ser Met Glu Leu Leu Pro Pro Glu Leu Pro Pro Arg Ile Pro Ile Glu  
 325 330 335  
 Glu Gly Pro Pro Ala Gly Thr Val His Pro Leu Ser Ala Pro Tyr Pro  
 340 345 350  
 Pro Leu Asp Thr Pro Glu Thr Ala Thr Gly Ser Phe Leu Phe Gln Gly  
 355 360 365  
 Glu Pro Glu Gly Gly Asp Gln Pro Leu Ser Gly Tyr Pro Trp  
 370 375 380  
 Phe His Gly Met Leu Ser Arg Leu Lys Ala Ala Gln Leu Val Leu Thr  
 385 390 395 400  
 Gly Gly Thr Gly Ser His Gly Val Phe Leu Val Arg Gln Ser Glu Thr  
 405 410 415  
 Arg Arg Gly Glu Tyr Val Leu Thr Phe Asn Phe Gln Gly Lys Ala Lys  
 420 425 430  
 His Leu Arg Leu Ser Leu Asn Glu Gly Gln Cys Arg Val Gln His  
 435 440 445

Leu Trp Phe Gln Ser Ile Phe Asp Met Leu Glu His Phe Arg Val His  
   450                         455                         460  
 Pro Ile Pro Leu Glu Ser Gly Gly Ser Ser Asp Val Val Leu Val Ser  
   465                         470                         475                         480  
 Tyr Val Pro Ser Ser Gln Arg Gln Gln Gly Glu Gln Ser Arg Ser Ala  
   485                         490                         495  
 Gly Glu Glu Val Pro Val His Pro Arg Ser Glu Ala Gly Ser Arg Leu  
   500                         505                         510  
 Gly Ala Met Arg Gly Cys Ala Arg Glu Met Asp Ala Thr Pro Asn Ala  
   515                         520                         525  
 Ser Cys Thr Leu Met Pro Phe Gly Ala Ser Asp Cys Glu Pro Thr Thr  
   530                         535                         540  
 Ser His Asp Pro Pro Gln Pro Pro Glu Pro Pro Ser Trp Thr Asp Pro  
   545                         550                         555                         560  
 Pro Gln Pro Gly Glu Glu Ala Ser Arg Ala Pro Gly Ser Gly Gly  
   565                         570                         575  
 Gln Gln Ala Ala Ala Ala Lys Glu Arg Gln Glu Lys Glu Lys Ala  
   580                         585                         590  
 Gly Gly Gly Val Pro Glu Glu Leu Val Pro Val Val Xaa Leu Val  
   595                         600                         605  
 Pro Val Gly Glu Leu Gly Glu Gly His Arg Pro Gln Ala Gln Glu Ala  
   610                         615                         620  
 Gln Gly Arg Leu Gly Pro Gly Asp Ala Gly Val Pro Pro Met Val  
   625                         630                         635                         640  
 Gln Leu Gln Ser Pro Leu Gly Gly Asp Gly Glu Glu Gly His  
   645                         650                         655  
 Pro Arg Ala Ile Asn Asn Gln Tyr Ser Phe Val  
   660                         665                         667

<210> 1125  
 <211> 387  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1125  
 Phe Arg Ala Pro Val Gly Thr Ala Ala Arg Ser Pro Gln Val Val Ile  
   1                         5                                 10                         15  
 Arg Arg Leu Pro Pro Gly Leu Thr Lys Glu Gln Leu Glu Glu Gln Leu  
   20                         25                                 30  
 Arg Pro Leu Pro Ala His Asp Tyr Phe Glu Phe Phe Ala Ala Asp Leu  
   35                         40                                 45  
 Ser Leu Tyr Pro His Leu Tyr Ser Arg Ala Tyr Ile Asn Phe Arg Asn  
   50                         55                                 60  
 Pro Asp Asp Ile Leu Leu Phe Arg Asp Arg Phe Asp Gly Tyr Ile Phe  
   65                         70                                 75                         80  
 Leu Asp Ser Lys Asp Pro Glu Tyr Lys Lys Phe Leu Glu Thr Tyr Cys  
   85                         90                                 95  
 Val Glu Glu Glu Lys Thr Ser Ala Asn Pro Glu Thr Leu Leu Gly Glu  
   100                         105                                 110  
 Met Glu Ala Lys Thr Arg Glu Leu Ile Ala Arg Arg Thr Thr Pro Leu  
   115                         120                                 125  
 Leu Glu Tyr Ile Lys Asn Arg Lys Leu Glu Lys Gln Arg Ile Arg Glu  
   130                         135                                 140  
 Glu Lys Arg Glu Glu Arg Arg Arg Arg Glu Leu Glu Lys Lys Arg Leu  
   145                         150                                 155                         160  
 Arg Glu Glu Glu Lys Arg Arg Arg Arg Glu Glu Glu Arg Cys Lys Lys  
   165                         170                                 175  
 Lys Glu Thr Asp Lys Gln Lys Lys Ile Ala Glu Lys Glu Val Arg Ile  
   180                         185                                 190

Lys Leu Leu Lys Pro Glu Lys Gly Glu Glu Pro Thr Thr Glu Lys  
 195 200 205  
 Pro Lys Glu Arg Gly Glu Glu Ile Asp Thr Gly Gly Lys Gln Glu  
 210 215 220  
 Ser Cys Ala Pro Gly Ala Val Val Lys Ala Arg Pro Met Glu Gly Ser  
 225 230 235 240  
 Leu Glu Glu Pro Gln Glu Thr Ser His Ser Gly Ser Asp Lys Glu His  
 245 250 255  
 Arg Asp Val Glu Arg Ser Gln Glu Gln Glu Ser Glu Ala Gln Arg Tyr  
 260 265 270  
 His Val Asp Asp Gly Arg Arg His Arg Ala His His Glu Pro Glu Arg  
 275 280 285  
 Leu Ser Arg Arg Ser Glu Asp Glu Gln Arg Trp Gly Lys Gly Pro Gly  
 290 295 300  
 Gln Asp Arg Gly Lys Lys Gly Ser Gln Asp Ser Gly Ala Pro Gly Glu  
 305 310 315 320  
 Ala Met Glu Arg Leu Gly Arg Ala Gln Arg Cys Asp Asp Ser Pro Ala  
 325 330 335  
 Pro Arg Lys Glu Arg Leu Ala Asn Lys Asp Arg Pro Ala Leu Gln Leu  
 340 345 350  
 Tyr Asp Pro Gly Ala Arg Phe Arg Ala Arg Glu Cys Gly Gly Asn Arg  
 355 360 365  
 Arg Ile Cys Lys Ala Glu Gly Ser Gly Thr Gly Pro Glu Lys Arg Glu  
 370 375 380  
 Glu Ala Glu  
 385 387

<210> 1126  
 <211> 208  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1126  
 Gly Val Trp Gly Val Cys Val Ser Gly Leu Leu Gln Val Gly Ser Gln  
 1 5 10 15  
 Arg Ala Gln Ala Trp Arg Ala Trp Ser Pro Met Glu Thr Pro Leu Thr  
 20 25 30  
 Gly Thr Phe Leu Trp Pro His Ile Pro Gln Gly Leu Phe Phe Asp Asp  
 35 40 45  
 Ser Tyr Gly Phe Tyr Pro Gly Gln Val Leu Ile Gly Pro Ala Lys Ile  
 50 55 60  
 Phe Ser Ser Val Gln Trp Leu Ser Gly Val Lys Pro Val Leu Ser Thr  
 65 70 75 80  
 Lys Ser Lys Phe Arg Val Val Val Glu Val Gln Val Val Glu Leu  
 85 90 95  
 Lys Val Thr Trp Ile Thr Lys Ser Phe Cys Pro Gly Gly Thr Asp Ser  
 100 105 110  
 Val Ser Pro Pro Pro Ser Val Ile Thr Gln Glu Asn Leu Gly Arg Val  
 115 120 125  
 Lys Arg Leu Gly Cys Phe Asp His Ala Gln Arg His Ala Trp Gly Ala  
 130 135 140  
 Leu Ser Val Cys Leu Pro Ser Gln Gly Arg Ala Ser Gln Asp Cys Leu  
 145 150 155 160  
 Gly Met Ser Arg Lys Lys Leu Arg Pro Gly Gly Leu Tyr Gly Gln  
 165 170 175  
 Glu Gly Glu Ala Pro Val Glu Glu Ala Gly Cys Ala Asp His Val Met  
 180 185 190  
 Leu Pro Arg His Pro Val Phe Pro Gly Pro Phe His Gly Arg Pro Arg  
 195 200 205 208

<210> 1127  
 <211> 670  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1127  
 Phe Arg Asp Ser Ser Pro Cys Ser Ala Phe Glu Phe His Cys Leu Ser  
 1 5 10 15  
 Gly Glu Cys Ile His Ser Ser Trp Arg Cys Asp Gly Gly Pro Asp Cys  
 20 25 30  
 Lys Asp Lys Ser Asp Glu Glu Asn Cys Ala Val Ala Thr Cys Arg Pro  
 35 40 45  
 Asp Glu Phe Gln Cys Ser Asp Gly Asn Cys Ile His Gly Ser Arg Gln  
 50 55 60  
 Cys Asp Arg Glu Tyr Asp Cys Lys Asp Met Ser Asp Glu Val Gly Cys  
 65 70 75 80  
 Val Asn Val Thr Leu Cys Glu Gly Pro Asn Lys Phe Lys Cys His Ser  
 85 90 95  
 Gly Glu Cys Ile Thr Leu Asp Lys Val Cys Asn Met Ala Arg Asp Cys  
 100 105 110  
 Arg Asp Trp Ser Asp Glu Pro Ile Lys Glu Cys Gly Thr Asn Glu Cys  
 115 120 125  
 Leu Asp Asn Asn Gly Cys Ser His Val Cys Asn Asp Leu Lys Ile  
 130 135 140  
 Gly Tyr Glu Cys Leu Cys Pro Asp Gly Phe Gln Leu Val Ala Gln Arg  
 145 150 155 160  
 Arg Cys Glu Asp Ile Asp Glu Cys Gln Asp Pro Asp Thr Cys Ser Gln  
 165 170 175  
 Leu Cys Val Asn Leu Glu Gly Gly Tyr Lys Cys Gln Cys Glu Glu Gly  
 180 185 190  
 Phe Gln Leu Asp Pro His Thr Lys Ala Cys Lys Ala Val Gly Ser Ile  
 195 200 205  
 Ala Tyr Leu Phe Phe Thr Asn Arg His Glu Val Arg Lys Met Thr Leu  
 210 215 220  
 Asp Arg Ser Glu Tyr Thr Ser Leu Ile Pro Asn Leu Arg Asn Val Val  
 225 230 235 240  
 Ala Leu Asp Thr Glu Val Ala Ser Asn Arg Ile Tyr Trp Ser Asp Leu  
 245 250 255  
 Ser Gln Arg Met Ile Cys Ser Thr Gln Leu Asp Arg Ala His Gly Val  
 260 265 270  
 Ser Ser Tyr Asp Thr Val Ile Ser Arg Asp Ile Gln Ala Pro Asp Gly  
 275 280 285  
 Leu Ala Val Asp Trp Ile His Ser Asn Ile Tyr Trp Thr Asp Ser Val  
 290 295 300  
 Leu Gly Thr Val Ser Val Ala Asp Thr Lys Gly Val Lys Arg Lys Thr  
 305 310 315 320  
 Leu Phe Arg Glu Asn Gly Ser Lys Pro Arg Ala Ile Val Val Asp Pro  
 325 330 335  
 Val His Gly Phe Met Tyr Trp Thr Asp Trp Gly Thr Pro Ala Lys Ile  
 340 345 350  
 Lys Lys Gly Gly Leu Asn Gly Val Asp Ile Tyr Ser Leu Val Thr Glu  
 355 360 365  
 Asn Ile Gln Trp Pro Asn Gly Ile Thr Leu Asp Leu Leu Ser Gly Arg  
 370 375 380  
 Leu Tyr Trp Val Asp Ser Lys Leu His Ser Ile Ser Ser Ile Asp Val  
 385 390 400

Asn Gly Gly Asn Arg Lys Thr Ile Leu Glu Asp Glu Lys Arg Leu Ala  
                   405                  410                  415  
 His Pro Phe Ser Leu Ala Val Phe Glu Asp Lys Val Phe Trp Thr Asp  
                   420                  425                  430  
 Ile Ile Asn Glu Ala Ile Phe Ser Ala Asn Arg Leu Thr Gly Ser Asp  
                   435                  440                  445  
 Val Asn Leu Leu Ala Glu Asn Leu Leu Ser Pro Glu Asp Met Val Leu  
                   450                  455                  460  
 Phe His Asn Leu Thr Gln Pro Arg Gly Val Asn Trp Cys Glu Arg Thr  
                   465                  470                  475                  480  
 Thr Leu Ser Asn Gly Gly Cys Gln Tyr Leu Cys Leu Pro Ala Pro Gln  
                   485                  490                  495  
 Ile Asn Pro His Ser Pro Lys Phe Thr Cys Ala Cys Pro Asp Gly Met  
                   500                  505                  510  
 Leu Leu Ala Arg Asp Met Arg Ser Cys Leu Thr Glu Gly Glu Ala Ala  
                   515                  520                  525  
 Val Ala Thr Gln Glu Thr Ser Thr Val Arg Leu Lys Val Ser Ser Thr  
                   530                  535                  540  
 Ala Val Arg Thr Gln His Thr Thr Arg Pro Val Pro Asp Thr Ser  
                   545                  550                  555                  560  
 Arg Leu Pro Gly Ala Thr Pro Gly Leu Thr Thr Val Glu Ile Val Thr  
                   565                  570                  575  
 Met Ser His Gln Ala Leu Gly Asp Val Ala Gly Arg Gly Asn Glu Lys  
                   580                  585                  590  
 Lys Pro Ser Ser Val Arg Ala Leu Ser Ile Val Leu Pro Ile Val Leu  
                   595                  600                  605  
 Leu Val Phe Leu Cys Leu Gly Val Phe Leu Leu Trp Lys Asn Trp Arg  
                   610                  615                  620  
 Leu Lys Asn Ile Asn Ser Ile Asn Phe Asp Asn Pro Val Tyr Gln Lys  
                   625                  630                  635                  640  
 Thr Thr Glu Asp Glu Val His Ile Cys His Asn Gln Asp Gly Tyr Ser  
                   645                  650                  655  
 Tyr Pro Ser Arg Gln Met Val Ser Leu Glu Asp Asp Val Ala  
                   660                  665                  670

<210> 1128  
 <211> 393  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1128  
 Arg Ile Pro Gly Leu Gly Pro Pro Gly Ser Pro Pro Pro Pro Pro His  
   1                  5                  10                  15  
 Val Arg Gly Met Pro Gly Cys Pro Cys Pro Gly Cys Gly Met Ala Gly  
   20                  25                  30  
 Pro Arg Leu Leu Phe Leu Thr Ala Leu Ala Leu Glu Leu Leu Gly Arg  
   35                  40                  45  
 Ala Gly Gly Ser Gln Pro Ala Leu Arg Ser Arg Gly Thr Ala Thr Ala  
   50                  55                  60  
 Cys Arg Leu Asp Asn Lys Glu Ser Glu Ser Trp Gly Ala Leu Leu Ser  
   65                  70                  75                  80  
 Gly Glu Arg Leu Asp Thr Trp Ile Cys Ser Leu Leu Gly Ser Leu Met  
   85                  90                  95  
 Val Gly Leu Ser Gly Val Phe Pro Leu Leu Val Ile Pro Leu Glu Met  
   100                  105                  110  
 Gly Thr Met Leu Arg Ser Glu Ala Gly Ala Trp Arg Leu Lys Gln Leu  
   115                  120                  125  
 Leu Ser Phe Ala Leu Gly Gly Leu Leu Gly Asn Val Phe Leu His Leu  
   130                  135                  140

Leu Pro Glu Ala Trp Ala Tyr Thr Cys Ser Ala Ser Pro Gly Gly Glu  
 145 150 155 160  
 Gly Gln Ser Leu Gln Gln Gln Gln Leu Gly Leu Trp Val Ile Ala  
     165 170 175  
 Gly Ile Leu Thr Phe Leu Ala Leu Glu Lys Met Phe Leu Asp Ser Lys  
     180 185 190  
 Glu Glu Gly Thr Ser Gln Ala Pro Asn Lys Asp Pro Thr Ala Ala Ala  
     195 200 205  
 Ala Ala Leu Asn Gly Gly His Cys Leu Ala Gln Pro Ala Ala Glu Pro  
     210 215 220  
 Gly Leu Gly Ala Val Val Arg Ser Ile Lys Val Ser Gly Tyr Leu Asn  
     225 230 235 240  
 Leu Leu Ala Asn Thr Ile Asp Asn Phe Thr His Gly Leu Ala Val Ala  
     245 250 255  
 Ala Ser Phe Leu Val Ser Lys Lys Ile Gly Leu Leu Thr Thr Met Ala  
     260 265 270  
 Ile Leu Leu His Glu Ile Pro His Glu Val Gly Asp Phe Ala Ile Leu  
     275 280 285  
 Leu Arg Ala Gly Phe Asp Arg Trp Ser Ala Ala Lys Leu Gln Leu Ser  
     290 295 300  
 Thr Ala Leu Gly Gly Leu Leu Gly Ala Gly Phe Ala Ile Cys Thr Gln  
     305 310 315 320  
 Ser Pro Lys Gly Val Glu Glu Thr Ala Ala Trp Val Leu Pro Phe Thr  
     325 330 335  
 Ser Gly Gly Phe Leu Tyr Ile Ala Leu Val Asn Val Leu Pro Asp Leu  
     340 345 350  
 Leu Glu Glu Glu Asp Pro Trp Arg Ser Leu Gln Gln Leu Leu Leu  
     355 360 365  
 Cys Ala Gly Ile Val Val Met Val Leu Phe Ser Leu Phe Val Asp  
     370 375 380 383

<210> 1129  
 <211> 174  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1129  
 Gly Lys Val Ser Ala Gly Gln Ala Gly Ala Asp Arg Thr Leu Arg Arg  
     1       5       10       15  
 Ala Pro Glu Pro Arg Phe Ser Gln Glu Pro Thr Gly Asn Ser Ala Tyr  
     20       25       30  
 Pro Gln Leu Arg Pro Phe Leu Asp Pro Gln Gly Arg Asp Leu Lys Pro  
     35       40       45  
 Ser Ala Leu Val Pro Pro Thr Arg Ser His Thr Gly Arg Arg Pro Trp  
     50       55       60  
 Leu His Thr Gln Pro Leu Pro Gly Pro Gln Gly Arg Ala Trp Gly Pro  
     65       70       75       80  
 Thr Cys Thr Pro Ala Cys Val Asp Arg Val Leu Glu Ser Glu Glu Gly  
     85       90       95  
 Arg Arg Glu Tyr Leu Ala Phe Pro Thr Ser Lys Ser Ser Gly Gln Lys  
     100      105      110  
 Gly Arg Lys Glu Leu Leu Lys Gly Asn Gly Arg Arg Ile Asp Tyr Met  
     115      120      125  
 Leu His Ala Glu Glu Gly Leu Cys Pro Asp Trp Lys Ala Glu Val Glu  
     130      135      140  
 Glu Phe Ser Phe Ile Thr Gln Leu Ser Gly Leu Thr Asp His Leu Pro  
     145      150      155      160  
 Val Ala Met Arg Leu Met Val Ser Ser Gly Glu Glu Glu Ala  
     165      170      174

<210> 1130  
<211> 231  
<212>Amino acid  
<213> Homo sapiens

<400> 1130  
Pro Cys Gly Gly Ile Arg Leu Ser Ala Ser Glu Ala Ala Thr Leu Phe  
1 5 10 15  
Gly Tyr Leu Val Val Pro Ala Gly Gly Gly Gly Thr Phe Leu Gly Gly  
20 25 30  
Phe Phe Val Asn Lys Leu Arg Leu Arg Gly Ser Ala Val Ile Lys Phe  
35 40 45  
Cys Leu Phe Cys Thr Val Val Ser Leu Leu Gly Ile Leu Val Phe Ser  
50 55 60  
Leu His Cys Pro Ser Val Pro Met Ala Gly Val Thr Ala Ser Tyr Gly  
65 70 75 80  
Gly Ser Leu Leu Pro Glu Gly His Leu Asn Leu Thr Ala Pro Cys Asn  
85 90 95  
Ala Ala Cys Ser Cys Gln Pro Glu His Tyr Ser Pro Val Cys Gly Ser  
100 105 110  
Asp Gly Leu Met Tyr Phe Ser Leu Cys His Ala Gly Cys Pro Ala Ala  
115 120 125  
Thr Glu Thr Asn Val Asp Gly Gln Lys Val Ser Gly Ala Ala Ala Tyr  
130 135 140  
Arg Pro Cys Pro Pro Leu Asp Pro Gly Lys Gly Pro Pro Cys Leu Pro  
145 150 155 160  
Leu Val Ile Gly Ala Ile Val Gly Leu Pro Arg Cys Thr Glu Thr Val  
165 170 175  
Ala Val Ser Leu Arg Ile Phe Pro Leu Val Leu Ala Met His Cys Arg  
180 185 190  
Glu Met His Phe Asn Leu Ser Glu Lys Ala Pro Pro Ser Gly Phe His  
195 200 205  
Ile Arg Cys Asn Phe Leu Tyr Ile Pro Gln Gln His Ser Cys Thr Asn  
210 215 220  
Gly Asn Ser Thr Met Cys Pro  
225 230 231

<210> 1131  
<211> 234  
<212>Amino acid  
<213> Homo sapiens

<400> 1131  
Leu Leu Arg Lys Val Gly Ala Pro Gly Gly Ala Arg Gly Val Ile Arg  
1 5 10 15  
Leu Leu Asp Trp Phe Glu Arg Pro Asp Gly Phe Leu Leu Val Leu Glu  
20 25 30  
Arg Pro Glu Pro Ala Gln Asp Leu Phe Asp Phe Ile Thr Glu Arg Gly  
35 40 45  
Ala Leu Asp Glu Pro Leu Ala Arg Arg Phe Phe Ala Gln Val Leu Ala  
50 55 60  
Ala Val Arg His Cys His Ser Cys Gly Val Val His Arg Asp Ile Lys  
65 70 75 80

Asp Glu Asn Leu Leu Val Asp Leu Arg Ser Gly Glu Leu Lys Leu Ile			
85	90	95	
Asp Phe Gly Ser Gly Ala Leu Leu Lys Asp Thr Val Tyr Thr Asp Phe			
100	105	110	
Asp Gly Thr Arg Val Tyr Ser Pro Pro Glu Trp Ile Arg Tyr His Arg			
115	120	125	
Tyr His Gly Arg Ser Ala Thr Val Trp Ser Leu Gly Val Leu Leu Tyr			
130	135	140	
Asp Met Val Cys Gly Asp Ile Pro Phe Glu Gln Asp Glu Glu Ile Leu			
145	150	155	160
Arg Gly Arg Leu Leu Phe Arg Arg Arg Val Ser Pro Glu Cys Gln Gln			
165	170	175	
Leu Ile Arg Trp Cys Leu Ser Leu Arg Pro Ser Glu Arg Pro Ser Leu			
180	185	190	
Asp Gln Ile Ala Ala His Pro Trp Met Leu Gly Ala Asp Gly Gly Ala			
195	200	205	
Pro Glu Ser Cys Asp Leu Arg Leu Cys Thr Leu Asp Pro Asp Asp Val			
210	215	220	
Ala Ser Thr Thr Ser Ser Glu Ser Leu			
225	230	234	

<210> 1132  
<211> 270  
<212>Amino acid  
<213> Homo sapiens

<400> 1132			
Gly Lys Asn Ser Gln Lys Ala Ser Pro Val Asp Asp Glu Gln Leu Ser			
1	5	10	15
Val Cys Leu Ser Gly Phe Leu Asp Glu Val Met Lys Lys Tyr Gly Ser			
20	25	30	
Leu Val Pro Leu Ser Glu Lys Glu Val Leu Gly Arg Leu Lys Asp Val			
35	40	45	
Phe Asn Glu Asp Phe Ser Asn Arg Lys Pro Phe Ile Asn Arg Glu Ile			
50	55	60	
Thr Asn Tyr Arg Ala Arg His Gln Lys Cys Asn Phe Arg Ile Phe Tyr			
65	70	75	80
Asn Lys His Met Leu Asp Met Asp Asp Leu Ala Thr Leu Asp Gly Gln			
85	90	95	
Asn Trp Leu Asn Asp Gln Val Ile Asn Met Tyr Gly Glu Leu Ile Met			
100	105	110	
Asp Ala Val Pro Asp Lys Val His Phe Asn Ser Phe Phe His Arg			
115	120	125	
Gln Leu Val Thr Lys Gly Tyr Asn Gly Val Lys Arg Trp Thr Lys Lys			
130	135	140	
Val Asp Leu Phe Lys Lys Ser Leu Leu Ile Pro Ile His Leu Glu			
145	150	155	160
Val His Trp Ser Leu Ile Thr Val Thr Leu Ser Asn Arg Ile Ile Ser			
165	170	175	
Phe Tyr Asp Ser Gln Gly Ile His Phe Lys Phe Cys Val Glu Asn Ile			
180	185	190	
Arg Lys Tyr Leu Leu Thr Glu Ala Arg Glu Lys Asn Arg Leu Asn Leu			
195	200	205	
Gln Gly Trp Gln Thr Ala Val Thr Lys Cys Ile Pro Gln Gln Lys Asn			
210	215	220	
Asp Ser Asp Cys Gly Val Phe Val Leu Gln Tyr Cys Lys Cys Leu Ala			
225	230	235	240
Leu Lys Gln Pro Phe Gln Phe Ser Gln Glu Asp Met Pro Arg Val Arg			
245	250	255	

Lys Arg Ile Tyr Lys Glu Leu Cys Glu Cys Arg Leu Met Asp  
260 265 270

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<210> 1133
<211> 204
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(204)
<223> X = any amino acid or stop code
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<400> 1133
Pro Pro Gly Gly Xaa Gln Gly Ser Ala Ala Lys His Arg Phe Pro Lys
      1           5           10          15
Gly Tyr Arg His Pro Ala Leu Glu Ala Arg Leu Gly Arg Arg Arg Thr
      20          25          30
Val Gln Glu Ala Arg Ala Leu Leu Arg Cys Arg Arg Ala Gly Ile Ser
      35          40          45
Ala Pro Val Val Phe Val Asp Tyr Ala Ser Asn Cys Leu Tyr Met
      50          55          60
Glu Glu Ile Glu Gly Ser Val Thr Val Arg Asp Tyr Ile Gln Ser Thr
      65          70          75          80
Met Glu Thr Glu Lys Thr Pro Gln Gly Leu Ser Asn Leu Ala Lys Thr
      85          90          95
Ile Gly Gln Val Leu Ala Arg Met His Asp Glu Asp Leu Ile His Gly
      100         105         110
Asp Leu Thr Thr Ser Asn Met Leu Leu Lys Pro Pro Leu Glu Gln Leu
      115         120         125
Asn Ile Val Leu Ile Asp Phe Gly Leu Ser Phe Ile Ser Ala Leu Pro
      130         135         140
Glu Asp Lys Gly Val Asp Leu Tyr Val Leu Glu Lys Ala Phe Leu Ser
      145         150         155         160
Thr His Pro Asn Thr Glu Thr Val Phe Glu Ala Phe Leu Lys Ser Tyr
      165         170         175
Ser Thr Ser Ser Lys Lys Ala Arg Pro Val Leu Lys Lys Leu Asp Glu
      180         185         190
Val Arg Leu Arg Gly Lys Lys Arg Ser Met Val Gly
      195         200         204

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<210> 1134  
<211> 531  
<212>Amino acid  
<213> Homo sapiens

50	55	60
Tyr Asn Val Thr Tyr Trp Pro Leu Trp Tyr Ile Glu Leu Ala Leu Ala		
65	70	75
Ser Leu Phe Ser Leu Asn Ala Leu Phe Asp Phe Trp Arg Tyr Phe Lys		80
85	90	95
Tyr Thr Val Ala Pro Thr Ser Leu Val Val Ser Pro Gly Gln Gln Thr		
100	105	110
Leu Leu Gly Leu Lys Thr Ala Val Val Gln Thr Thr Pro Pro His Asp		
115	120	125
Leu Ala Ala Thr Gln Ile Pro Pro Ala Pro Pro Ser Pro Ser Ile Gln		
130	135	140
Gly Gln Ser Val Leu Ser Tyr Ser Pro Ser Arg Ser Pro Ser Thr Ser		
145	150	155
Pro Lys Phe Thr Thr Ser Cys Met Thr Gly Tyr Ser Pro Gln Leu Gln		160
165	170	175
Gly Leu Ser Ser Gly Gly Ser Gly Ser Tyr Ser Pro Gly Val Thr Tyr		
180	185	190
Ser Pro Val Ser Gly Tyr Asn Lys Leu Ala Ser Phe Ser Pro Ser Pro		
195	200	205
Pro Ser Pro Tyr Pro Thr Thr Val Gly Pro Val Glu Ser Ser Gly Leu		
210	215	220
Arg Ser Arg Tyr Arg Ser Ser Pro Thr Val Tyr Asn Ser Pro Thr Asp		
225	230	235
Lys Glu Asp Tyr Met Thr Asp Leu Arg Thr Leu Asp Thr Phe Leu Arg		
245	250	255
Ser Glu Glu Glu Lys Gln His Arg Val Lys Leu Gly Ser Pro Asp Ser		
260	265	270
Thr Ser Pro Ser Ser Ser Pro Thr Phe Trp Asn Tyr Ser Arg Ser Met		
275	280	285
Gly Asp Tyr Ala Gln Thr Leu Lys Lys Phe Gln Tyr Gln Leu Ala Cys		
290	295	300
Arg Ser Gln Ala Pro Cys Ala Asn Lys Asp Glu Ala Asp Leu Ser Ser		
305	310	315
Lys Gln Ala Ala Glu Glu Val Trp Ala Arg Val Ala Met Asn Arg Gln		
325	330	335
Leu Leu Asp His Met Asp Ser Trp Thr Ala Lys Phe Arg Asn Trp Ile		
340	345	350
Asn Glu Thr Ile Leu Val Pro Leu Val Gln Glu Ile Glu Ser Val Ser		
355	360	365
Thr Gln Met Arg Arg Met Gly Cys Pro Glu Leu Gln Ile Gly Glu Ala		
370	375	380
Ser Ile Thr Ser Leu Lys Gln Ala Ala Leu Val Lys Ala Pro Leu Ile		
385	390	395
Pro Thr Leu Asn Thr Ile Val Gln Tyr Leu Asp Leu Thr Pro Asn Gln		
405	410	415
Glu Tyr Leu Phe Glu Arg Ile Lys Glu Leu Ser Gln Gly Gly Cys Met		
420	425	430
Ser Ser Phe Arg Trp Asn Arg Gly Gly Asp Phe Lys Gly Arg Lys Trp		
435	440	445
Asp Thr Asp Leu Pro Thr Asp Ser Ala Ile Ile Met His Val Phe Cys		
450	455	460
Thr Tyr Leu Asp Ser Arg Leu Pro Pro His Pro Lys Tyr Pro Asp Gly		
465	470	475
Lys Thr Phe Thr Ser Gln His Phe Val Gln Thr Pro Asn Lys Pro Asp		
485	490	495
Val Thr Asn Glu Asn Val Phe Cys Ile Tyr Gln Ser Ala Ile Asn Pro		
500	505	510
Pro His Tyr Glu Leu Ile Tyr Gln Arg His Val Tyr Ile Pro Ala Lys		
515	520	525
Gly Gln Lys		
530	531	

<211> 508  
<212> Amino acid  
<213> Homo sapiens

<400> 1135  
Ser Ser Ala Val Glu Phe Ile Asn Arg Asn Asn Ser Val Val Gln Val  
1 5 10 15  
Leu Leu Ala Ala Gly Ala Asp Pro Asn Leu Gly Asp Asp Phe Ser Ser  
20 25 30  
Val Tyr Lys Thr Ala Lys Glu Gln Gly Ile His Ser Leu Glu Val Leu  
35 40 45  
Ile Thr Arg Glu Asp Asp Phe Asn Asn Arg Leu Asn Asn Arg Ala Ser  
50 55 60  
Phe Lys Gly Cys Thr Ala Leu His Tyr Ala Val Leu Ala Asp Asp Tyr  
65 70 75 80  
Arg Thr Val Lys Glu Leu Leu Asp Gly Gly Ala Asn Pro Leu Gln Arg  
85 90 95  
Asn Glu Met Gly His Thr Pro Leu Asp Tyr Ala Arg Glu Gly Glu Val  
100 105 110  
Met Lys Leu Leu Arg Thr Ser Glu Ala Lys Tyr Gln Glu Lys Gln Arg  
115 120 125  
Lys Arg Glu Ala Glu Glu Arg Arg Arg Phe Pro Leu Glu Gln Arg Leu  
130 135 140  
Lys Glu His Ile Ile Gly Gln Glu Ser Ala Ile Ala Thr Val Gly Ala  
145 150 155 160  
Ala Ile Arg Arg Lys Glu Asn Gly Trp Tyr Asp Glu Glu His Pro Leu  
165 170 175  
Val Phe Leu Phe Leu Gly Ser Ser Gly Ile Gly Lys Thr Glu Leu Ala  
180 185 190  
Lys Gln Thr Ala Lys Tyr Met His Lys Asp Ala Lys Lys Gly Phe Ile  
195 200 205  
Arg Leu Asp Met Ser Glu Phe Gln Glu Arg His Glu Val Ala Lys Phe  
210 215 220  
Ile Gly Ser Pro Pro Gly Tyr Val Gly His Glu Glu Gly Gly Gln Leu  
225 230 235 240  
Thr Lys Lys Leu Lys Gln Cys Pro Asn Ala Val Val Leu Phe Asp Glu  
245 250 255  
Val Asp Lys Ala His Pro Asp Val Leu Thr Ile Met Leu Gln Leu Phe  
260 265 270  
Asp Glu Gly Arg Leu Thr Asp Gly Lys Gly Lys Thr Ile Asp Cys Lys  
275 280 285  
Asp Ala Ile Phe Ile Met Thr Ser Asn Val Ala Ser Asp Glu Ile Ala  
290 295 300  
Gln His Ala Leu Gln Leu Arg Gln Glu Ala Leu Glu Met Ser Arg Asn  
305 310 315 320  
Arg Ile Ala Glu Asn Leu Gly Asp Val Gln Ile Ser Asp Lys Ile Thr  
325 330 335  
Ile Ser Lys Asn Phe Lys Glu Asn Val Ile Arg Pro Ile Leu Lys Ala  
340 345 350  
His Phe Arg Arg Asp Glu Phe Leu Gly Arg Ile Asn Glu Ile Val Tyr  
355 360 365  
Phe Leu Pro Phe Cys His Ser Glu Leu Ile Gln Leu Val Asn Lys Glu  
370 375 380  
Leu Asn Phe Trp Ala Lys Arg Ala Lys Gln Arg His Asn Ile Thr Leu  
385 390 395 400  
Leu Trp Asp Arg Glu Val Ala Asp Val Leu Val Asp Gly Tyr Asn Val  
405 410 415  
His Tyr Gly Ala Arg Ser Ile Lys His Glu Val Glu Arg Arg Val Gly  
420 425 430  
Asn Gln Leu Ala Ala Ala Tyr Glu Gln Asp Leu Leu Pro Gly Gly Cys

435	440	445
Thr Leu Arg Ile Thr Val Glu Asp Ser Asp Lys Gln Leu Leu Lys Ser		
450	455	460
Pro Glu Leu Pro Ser Pro Gln Ala Glu Lys Arg Leu Pro Lys Leu Arg		
465	470	475
Leu Glu Ile Ile Asp Lys Asp Ser Lys Thr Arg Arg Leu Asp Ile Arg		
485	490	495
Ala Pro Leu His Pro Glu Lys Val Cys Asn Thr Ile		
500	505	508

<210> 1136  
<211> 81  
<212>Amino acid  
<213> Homo sapiens

<400> 1136		
Ser Ser Cys Asp Arg Glu Arg His Gly Ser Leu Gly Met Met Ser Gly		
1	5	10
Ser Phe Ile Leu Cys Leu Ala Leu Val Thr Arg Trp Ser Pro Gln Ala		
20	25	30
Ser Ser Val Pro Leu Ala Val Tyr Glu Ser Lys Thr Arg Lys Ser Tyr		
35	40	45
Arg Ser Gln Arg Asp Arg Asp Gly Lys Asp Arg Ser Gln Gly Met Gly		
50	55	60
Leu Ser Leu Leu Val Glu Thr Arg Lys Leu Leu Leu Ser Ala Asn Gln		
65	70	75
Gly		80
81		

<210> 1137  
<211> 260  
<212>Amino acid  
<213> Homo sapiens

<400> 1137		
His Thr Pro Met Ala Phe Phe Leu Ser Phe Leu Ser Thr Ser Glu Thr		
1	5	10
Val Tyr Thr Phe Val Ile Leu Pro Lys Met Leu Ile Asn Leu Leu Ser		
20	25	30
Val Ala Arg Thr Ile Ser Phe Asn Cys Cys Ala Leu Gln Met Phe Phe		
35	40	45
Phe Leu Gly Phe Ala Ile Thr Asn Cys Leu Leu Gly Val Met Gly		
50	55	60
Tyr Asp Arg Tyr Ala Ala Ile Cys His Pro Leu His Tyr Pro Thr Leu		
65	70	75
Met Ser Trp Gln Val Cys Gly Lys Leu Ala Ala Ala Cys Ala Ile Gly		
85	90	95
Gly Phe Leu Ala Ser Leu Thr Val Val Asn Leu Val Phe Ser Leu Pro		
100	105	110
Phe Cys Ser Thr Asn Lys Val Asn His Tyr Phe Cys Asp Ile Ser Ala		
115	120	125
Val Ile Leu Leu Ala Cys Thr Asn Thr Asp Val Asn Gly Phe Val Ile		
130	135	140
Phe Ile Cys Gly Val Leu Val Val Pro Phe Leu Phe Ile Cys		

145	150	155	160
Val Ser Tyr Phe Cys Ile Leu Arg Thr Ile Leu Lys Ile Pro Ser Ala			
165	170	175	
Glu Gly Arg Arg Lys Ala Phe Ser Thr Cys Ala Ser His Leu Ser Val			
180	185	190	
Val Ile Val His Tyr Gly Cys Ala Ser Phe Ile Tyr Leu Arg Pro Thr			
195	200	205	
Ala Asn Tyr Val Ser Asn Lys Asp Arg Leu Val Thr Val Thr Tyr Thr			
210	215	220	
Ile Val Thr Pro Leu Leu Asn Pro Met Val Tyr Ser Leu Arg Asn Lys			
225	230	235	240
Asp Val Gln Leu Ala Ile Arg Lys Val Leu Gly Lys Lys Gly Ser Leu			
245	250	255	
Lys Leu Tyr Asn			
260			

<210> 1138  
<211> 393  
<212>Amino acid  
<213> Homo sapiens

<400> 1138			
Arg Pro Pro Ala Ala Thr Arg Tyr Pro Arg Glu Lys Leu Lys Ser Met			
1	5	10	15
Thr Ser Arg Asp Asn Tyr Lys Ala Gly Ser Arg Glu Ala Ala Ala Ala			
20	25	30	
Ala Ala Ala Ala Val Ala Glu			
35	40	45	
Pro Tyr Pro Val Ser Gly Ala Lys Arg Lys Tyr Leu Glu Asp Ser Asp			
50	55	60	
Pro Glu Arg Ser Asp Tyr Glu Glu Gln Leu Gln Glu Glu Glu Glu			
65	70	75	80
Ala Arg Lys Val Lys Ser Gly Ile Arg Gln Met Arg Leu Phe Ser Gln			
85	90	95	
Asp Glu Cys Ala Lys Ile Glu Ala Arg Ile Asp Glu Val Val Ser Arg			
100	105	110	
Ala Glu Lys Gly Leu Tyr Asn Glu His Thr Val Asp Arg Ala Pro Leu			
115	120	125	
Arg Asn Lys Tyr Phe Phe Gly Glu Gly Tyr Thr Tyr Gly Ala Gln Leu			
130	135	140	
Gln Lys Arg Gly Pro Gly Gln Glu Arg Leu Tyr Pro Pro Gly Asp Val			
145	150	155	160
Asp Glu Ile Pro Glu Trp Val His Gln Leu Val Ile Gln Lys Leu Val			
165	170	175	
Glu His Arg Val Ile Pro Glu Gly Phe Val Asn Ser Ala Val Ile Asn			
180	185	190	
Asp Tyr Gln Pro Gly Gly Cys Ile Val Ser His Val Asp Pro Ile His			
195	200	205	
Ile Phe Glu Arg Pro Ile Val Ser Val Ser Phe Phe Ser Asp Ser Ala			
210	215	220	
Leu Cys Phe Gly Cys Lys Phe Gln Phe Lys Pro Ile Arg Val Ser Glu			
225	230	235	240
Pro Val Leu Ser Leu Pro Val Arg Arg Gly Ser Val Thr Val Leu Ser			
245	250	255	
Gly Tyr Ala Ala Asp Glu Ile Thr His Cys Ile Arg Pro Gln Asp Ile			
260	265	270	
Lys Glu Arg Arg Ala Val Ile Ile Leu Arg Lys Thr Arg Leu Asp Ala			
275	280	285	
Pro Arg Leu Glu Thr Lys Ser Leu Ser Ser Val Leu Pro Pro Ser			

290	295	300
Tyr Ala Ser Asp Arg Leu Ser Gly Asn Asn Arg Asp Pro Ala Leu Lys	310	315
305		320
Pro Lys Arg Ser His Arg Lys Ala Asp Pro Asp Ala Ala His Arg Pro	325	330
		335
Arg Ile Leu Glu Met Asp Lys Glu Glu Asn Arg Arg Ser Val Leu Leu	340	345
		350
Pro Thr His Arg Arg Arg Gly Ser Phe Ser Ser Glu Asn Tyr Trp Arg	355	360
		365
Lys Ser Tyr Glu Ser Ser Glu Asp Cys Ser Glu Ala Ala Gly Ser Pro	370	375
		380
Ala Arg Lys Val Lys Met Arg Arg His	385	390
		393

<210> 1139  
<211> 545  
<212>Amino acid  
<213> Homo sapiens

<400> 1139		
Val Thr Trp His Phe Tyr Phe Cys Ser Asp His Lys Asn Gly His Tyr	5	10
1		15
Ile Ile Pro Gln Met Ala Asp Arg Ser Arg Gln Lys Cys Met Ser Gln	20	25
		30
Ser Leu Asp Leu Ser Glu Leu Ala Lys Ala Ala Lys Lys Lys Leu Gln	35	40
		45
Ala Leu Ser Asn Arg Leu Phe Glu Glu Leu Ala Met Asp Val Tyr Asp	50	55
		60
Glu Val Asp Arg Arg Glu Asn Asp Ala Val Trp Leu Ala Thr Gln Asn	65	70
		80
His Ser Thr Leu Val Thr Glu Arg Ser Ala Val Pro Phe Leu Pro Val	85	90
		95
Asn Pro Glu Tyr Ser Ala Thr Arg Asn Gln Gly Arg Gln Lys Leu Ala	100	105
		110
Arg Phe Asn Ala Arg Glu Phe Ala Thr Leu Ile Ile Asp Ile Leu Ser	115	120
		125
Glu Ala Lys Arg Arg Gln Gln Gly Lys Ser Leu Ser Ser Pro Thr Asp	130	135
		140
Asn Leu Glu Leu Ser Leu Arg Ser Gln Ser Asp Leu Asp Asp Gln His	145	150
		155
Asp Tyr Asp Ser Val Ala Ser Asp Glu Asp Thr Asp Gln Glu Pro Leu	165	170
		175
Arg Ser Thr Gly Ala Thr Arg Ser Asn Arg Ala Arg Ser Met Asp Ser	180	185
		190
Ser Asp Leu Ser Asp Gly Ala Val Thr Leu Gln Glu Tyr Leu Glu Leu	195	200
		205
Lys Lys Ala Leu Ala Thr Ser Glu Ala Lys Val Gln Gln Leu Met Lys	210	215
		220
Val Asn Ser Ser Leu Ser Asp Glu Leu Arg Arg Leu Gln Arg Glu His	225	230
		235
Phe Ala Pro Ile Ile His Lys Leu Gln Ala Glu Asn Leu Gln Leu Arg	245	250
		255
Gln Pro Pro Gly Pro Val Pro Thr Pro Pro Leu Pro Ser Glu Arg Ala	260	265
		270
Glu His Thr Pro Met Ala Pro Gly Gly Ser Thr His Arg Arg Asp Arg	275	280
		285
Gln Ala Phe Ser Met Tyr Glu Pro Gly Ser Ala Leu Lys Pro Phe Gly	290	295
		300
Gly Pro Pro Gly Asp Glu Leu Thr Thr Arg Leu Gln Pro Phe His Ser		

305	310	315	320
Thr Glu Leu Glu Asp Asp Ala Ile Tyr Ser Val His Val Pro Ala Gly	325	330	335
Leu Tyr Arg Ile Arg Lys Gly Val Ser Ala Ser Ala Val Pro Phe Thr	340	345	350
Pro Ser Ser Pro Leu Leu Ser Cys Ser Gln Glu Gly Ser Arg His Thr	355	360	365
Ser Lys Leu Ser Arg His Gly Ser Gly Ala Asp Ser Asp Tyr Glu Asn	370	375	380
Thr Gln Ser Gly Asp Pro Leu Leu Gly Leu Glu Gly Lys Arg Phe Leu	385	390	395
Glu Leu Gly Lys Glu Glu Asp Phe His Pro Glu Leu Glu Ser Leu Asp	405	410	415
Gly Asp Leu Asp Pro Gly Leu Pro Ser Thr Glu Asp Val Ile Leu Lys	420	425	430
Thr Glu Gln Val Thr Lys Asn Ile Gln Glu Leu Leu Arg Ala Ala Gln	435	440	445
Glu Phe Lys His Asp Ser Phe Val Pro Cys Ser Glu Lys Ile His Leu	450	455	460
Ala Val Thr Glu Met Ala Ser Leu Phe Pro Lys Arg Pro Ala Leu Glu	465	470	475
Pro Val Arg Ser Ser Leu Arg Leu Leu Asn Ala Ser Ala Tyr Arg Leu	485	490	495
Gln Ser Glu Cys Arg Lys Thr Val Pro Pro Glu Pro Gly Ala Pro Val	500	505	510
Asp Phe Gln Leu Leu Thr Gln Gln Val Ile Gln Cys Ala Tyr Asp Ile	515	520	525
Ala Lys Ala Ala Lys Gln Leu Val Thr Ile Thr Thr Arg Glu Lys Lys	530	535	540
Gln			
545			

<210> 1140  
 <211> 621  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1140
Arg Tyr Leu Ser Tyr Gly Ser Gly Pro Lys Arg Phe Pro Leu Val Asp
1 5 10 15
Val Leu Gln Tyr Ala Leu Glu Phe Ala Ser Ser Lys Pro Val Cys Thr
20 25 30
Ser Pro Val Asp Asp Ile Asp Ala Ser Ser Pro Pro Ser Gly Ser Ile
35 40 45
Pro Ser Gln Thr Leu Pro Ser Thr Thr Glu Gln Gln Gly Ala Leu Ser
50 55 60
Ser Glu Leu Pro Ser Thr Ser Pro Ser Ser Val Ala Ala Ile Ser Ser
65 70 75 80
Arg Ser Val Ile His Lys Pro Phe Thr Gln Ser Arg Ile Pro Pro Asp
85 90 95
Leu Pro Met His Pro Ala Pro Arg His Ile Thr Glu Glu Glu Leu Ser
100 105 110
Val Leu Glu Ser Cys Leu His Arg Trp Arg Thr Glu Ile Glu Asn Asp
115 120 125
Thr Arg Asp Leu Gln Glu Ser Ile Ser Arg Ile His Arg Thr Ile Glu
130 135 140
Leu Met Tyr Ser Asp Lys Ser Met Ile Gln Val Pro Tyr Arg Leu His
145 150 155 160
Ala Val Leu Val His Glu Gly Gln Ala Asn Ala Gly His Tyr Trp Ala

Tyr	Ile	Phe	Asp	His	Arg	Glu	Ser	Arg	Trp	Met	Lys	Tyr	Asn	Asp	Ile
165												170			175
180												185			190
Ala	Val	Thr	Lys	Ser	Ser	Trp	Glu	Glu	Leu	Val	Arg	Asp	Ser	Phe	Gly
195												200			205
Gly	Tyr	Arg	Asn	Ala	Ser	Ala	Tyr	Cys	Leu	Met	Tyr	Ile	Asn	Asp	Lys
210												215			220
Ala	Gln	Phe	Leu	Ile	Gln	Glu	Glu	Phe	Asn	Lys	Glu	Thr	Gly	Gln	Pro
225												230			235
Leu	Val	Gly	Ile	Glu	Thr	Leu	Pro	Pro	Asp	Leu	Arg	Asp	Phe	Val	Glu
245												250			255
Glu	Asp	Asn	Gln	Arg	Phe	Glu	Lys	Glu	Leu	Glu	Glu	Trp	Asp	Ala	Gln
260												265			270
Leu	Ala	Gln	Lys	Ala	Leu	Gln	Glu	Lys	Leu	Leu	Ala	Ser	Gln	Lys	Leu
275												280			285
Arg	Glu	Ser	Glu	Thr	Ser	Val	Thr	Thr	Ala	Gln	Ala	Ala	Gly	Asp	Pro
290												295			300
Lys	Tyr	Leu	Glu	Gln	Pro	Ser	Arg	Ser	Asp	Phe	Ser	Lys	His	Leu	Lys
305												310			315
															320
Glu	Glu	Thr	Ile	Gln	Ile	Ile	Thr	Lys	Ala	Ser	His	Glu	His	Glu	Asp
												325			330
															335
Lys	Ser	Pro	Glu	Thr	Val	Leu	Gln	Ser	Ala	Ile	Lys	Leu	Glu	Tyr	Ala
												340			345
															350
Arg	Leu	Val	Lys	Leu	Ala	Gln	Glu	Asp	Thr	Pro	Pro	Glu	Thr	Asp	Tyr
												355			360
															365
Arg	Ieu	His	His	Val	Val	Val	Tyr	Phe	Ile	Gln	Asn	Gln	Ala	Pro	Lys
												370			375
															380
Lys	Ile	Ile	Glu	Lys	Thr	Leu	Leu	Glu	Gln	Phe	Gly	Asp	Arg	Asn	Leu
												385			390
															395
Ser	Phe	Asp	Glu	Arg	Cys	His	Asn	Ile	Met	Lys	Val	Ala	Gln	Ala	Lys
												405			410
															415
Leu	Glu	Met	Ile	Lys	Pro	Glu	Glu	Val	Asn	Leu	Glu	Glu	Tyr	Glu	Glu
												420			425
															430
Trp	His	Gln	Asp	Tyr	Arg	Lys	Phe	Arg	Glu	Thr	Thr	Met	Tyr	Leu	Ile
												435			440
															445
Ile	Gly	Leu	Glu	Asn	Phe	Gln	Arg	Glu	Ser	Tyr	Ile	Asp	Ser	Leu	Leu
												450			455
															460
Phe	Leu	Ile	Cys	Ala	Tyr	Gln	Asn	Asn	Lys	Glu	Leu	Leu	Ser	Lys	Gly
												465			470
															475
Leu	Tyr	Arg	Gly	His	Asp	Glu	Glu	Leu	Ile	Ser	His	Tyr	Arg	Arg	Glu
												485			490
															495
Cys	Leu	Leu	Lys	Leu	Asn	Glu	Gln	Ala	Ala	Glu	Leu	Phe	Glu	Ser	Gly
												500			505
															510
Glu	Asp	Arg	Glu	Val	Asn	Asn	Gly	Leu	Ile	Ile	Met	Asn	Glu	Phe	Ile
												515			520
															525
Val	Pro	Phe	Leu	Pro	Leu	Leu	Leu	Val	Asp	Glu	Met	Glu	Glu	Lys	Asp
												530			535
															540
Ille	Ieu	Ala	Val	Glu	Asp	Met	Arg	Asn	Arg	Trp	Cys	Ser	Tyr	Leu	Gly
												545			550
															555
Gln	Glu	Met	Glu	Pro	His	Leu	Gln	Glu	Lys	Leu	Thr	Asp	Phe	Leu	Pro
												565			570
															575
Lys	Leu	Leu	Asp	Cys	Ser	Met	Glu	Ile	Lys	Ser	Phe	His	Glu	Pro	Pro
												580			585
															590
Lys	Leu	Pro	Ser	Tyr	Ser	Thr	His	Glu	Leu	Cys	Glu	Arg	Phe	Ala	Arg
												595			600
															605
Ile	Met	Leu	Ser	Leu	Ser	Arg	Thr	Pro	Ala	Asp	Gly	Arg			
												610			615
															620
															621

&lt;210&gt; 1141

&lt;211&gt; 154

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

<400> 1141

Ala	Gln	Val	Tyr	Val	Arg	Met	Asp	Ser	Phe	Asp	Glu	Asp	Leu	Ala	Arg
1				5					10				15		
Pro	Ser	Gly	Leu	Leu	Ala	Gln	Glu	Arg	Lys	Leu	Cys	Arg	Asp	Leu	Val
				20				25				30			
His	Ser	Asn	Lys	Lys	Glu	Gln	Glu	Phe	Arg	Ser	Ile	Phe	Gln	His	Ile
				35				40				45			
Gln	Ser	Ala	Gln	Ser	Gln	Arg	Ser	Pro	Ser	Glu	Leu	Phe	Ala	Gln	His
				50				55				60			
Met	Val	Pro	Ile	Val	His	His	Val	Lys	Glu	His	His	Phe	Gly	Ser	Ser
				65				70				75			80
Gly	Met	Thr	Leu	His	Glu	Arg	Phe	Thr	Lys	Tyr	Leu	Lys	Arg	Gly	Thr
				85				90				95			
Glu	Gln	Glu	Ala	Ala	Lys	Asn	Lys	Lys	Ser	Pro	Glu	Ile	His	Arg	Arg
				100				105				110			
Ile	Asp	Ile	Ser	Pro	Ser	Thr	Phe	Arg	Lys	His	Gly	Leu	Ala	His	Asp
				115				120				125			
Glu	Met	Lys	Ser	Pro	Arg	Glu	Pro	Gly	Tyr	Lys	Asp	Gly	His	Asn	Ser
				130				135				140			
Lys	Asn	Glu	Leu	Gln	Arg	Val	Asn	Phe	Tyr						
				145				150				154			

<210> 1142  
<211> 121  
<212>Amino acid  
<213> Homo sapiens

<400> 1142

Thr	Tyr	Thr	Phe	Cys	Phe	Ser	Leu	Met	Ile	Ile	Leu	Leu	Thr	Ile	Ile
1					5				10				15		
Gln	Gly	Leu	Ile	Leu	Glu	Ala	Phe	Gly	Glu	Leu	Arg	Asp	Gln	Leu	Asp
					20				25				30		
Gln	Val	Lys	Glu	Asp	Met	Glu	Thr	Lys	Cys	Phe	Ile	Cys	Gly	Ile	Gly
					35				40				45		
Asn	Asp	Tyr	Phe	Asp	Thr	Val	Pro	His	Gly	Phe	Glu	Thr	His	Thr	Leu
					50				55				60		
Gln	Glu	His	Asn	Leu	Ala	Asn	Tyr	Leu	Phe	Phe	Leu	Met	Tyr	Leu	Ile
				65				70				75			80
Asn	Lys	Asp	Glu	Thr	Glu	His	Thr	Gly	Gln	Glu	Ser	Tyr	Val	Trp	Lys
					85				90				95		
Met	Tyr	Gln	Glu	Arg	Cys	Trp	Glu	Phe	Phe	Pro	Ala	Gly	Asp	Cys	Phe
					100				105				110		
Arg	Lys	Gln	Tyr	Glu	Asp	Gln	Ile	Asn							
					115				120				121		

<210> 1143  
<211> 851  
<212>Amino acid  
<213> Homo sapiens

<400> 1143  
 Phe Arg Arg Lys Gly Gly Gly Pro Lys Asp Phe Gly Ala Gly Leu  
 1 5 10 15  
 Lys Tyr Asn Ser Arg His Glu Lys Val Asn Gly Leu Glu Glu Gly Val  
 20 25 30  
 Glu Phe Leu Pro Val Asn Asn Val Lys Lys Val Glu Lys His Gly Pro  
 35 40 45  
 Gly Arg Trp Val Val Leu Ala Ala Val Leu Ile Gly Leu Leu Leu Val  
 50 55 60  
 Leu Leu Gly Ile Gly Phe Leu Val Trp His Leu Gln Tyr Arg Asp Val  
 65 70 75 80  
 Arg Val Gln Lys Val Phe Asn Gly Tyr Met Arg Ile Thr Asn Glu Asn  
 85 90 95  
 Phe Val Asp Ala Tyr Glu Asn Ser Asn Ser Thr Glu Phe Val Ser Leu  
 100 105 110  
 Ala Ser Lys Val Lys Asp Ala Leu Lys Leu Leu Tyr Ser Gly Val Pro  
 115 120 125  
 Phe Leu Gly Pro Tyr His Lys Glu Ser Ala Val Thr Ala Phe Ser Glu  
 130 135 140  
 Gly Ser Val Ile Ala Tyr Tyr Trp Ser Glu Phe Ser Ile Pro Gln His  
 145 150 155 160  
 Leu Val Glu Ala Glu Arg Val Met Ala Glu Glu Arg Val Val Met  
 165 170 175  
 Leu Pro Pro Arg Ala Arg Ser Leu Lys Ser Phe Val Val Thr Ser Val  
 180 185 190  
 Val Ala Phe Pro Thr Asp Ser Lys Thr Val Gln Arg Thr Gln Asp Asn  
 195 200 205  
 Ser Cys Ser Phe Gly Leu His Ala Arg Gly Val Glu Leu Met Arg Phe  
 210 215 220  
 Thr Thr Pro Gly Phe Pro Asp Ser Pro Tyr Pro Ala His Ala Arg Cys  
 225 230 235 240  
 Gln Trp Ala Leu Arg Gly Asp Ala Asp Ser Val Leu Ser Leu Thr Phe  
 245 250 255  
 Arg Ser Phe Asp Leu Ala Ser Cys Asp Glu Arg Gly Arg His Leu Val  
 260 265 270  
 Thr Val Tyr Asn Thr Leu Ser Pro Met Glu Pro His Ala Leu Val Gln  
 275 280 285  
 Leu Cys Gly Thr Tyr Pro Pro Ser Tyr Asn Leu Thr Phe His Ser Ser  
 290 295 300  
 Gln Asn Val Leu Leu Ile Thr Leu Ile Thr Asn Thr Glu Arg Arg His  
 305 310 315 320  
 Pro Gly Phe Glu Ala Thr Phe Phe Gln Leu Pro Arg Met Ser Ser Cys  
 325 330 335  
 Gly Gly Arg Leu Arg Lys Ala Gln Gly Thr Phe Asn Ser Pro Tyr Tyr  
 340 345 350  
 Pro Gly His Tyr Pro Pro Asn Ile Asp Cys Thr Trp Asn Ile Glu Val  
 355 360 365  
 Pro Asn Asn Gln His Val Lys Val Arg Phe Lys Phe Phe Tyr Leu Leu  
 370 375 380  
 Glu Pro Gly Val Pro Ala Gly Thr Cys Pro Lys Asp Tyr Val Glu Ile  
 385 390 395 400  
 Asn Gly Glu Lys Tyr Cys Gly Glu Arg Ser Gln Phe Val Val Thr Ser  
 405 410 415  
 Asn Ser Asn Lys Ile Thr Val Arg Phe His Ser Asp Gln Ser Tyr Thr  
 420 425 430  
 Asp Thr Gly Phe Leu Ala Glu Tyr Leu Ser Tyr Asp Ser Ser Asp Pro  
 435 440 445  
 Cys Pro Gly Gln Phe Thr Cys Arg Thr Gly Arg Cys Ile Arg Lys Glu  
 450 455 460  
 Leu Arg Cys Asp Gly Trp Ala Asp Cys Thr Asp His Ser Asp Glu Leu  
 465 470 475 480  
 Asn Cys Ser Cys Asp Ala Gly His Gln Phe Thr Cys Lys Asn Lys Phe  
 485 490 495  
 Cys Lys Pro Leu Phe Trp Val Cys Asp Ser Leu Asn Asp Cys Gly Asp

Asn Ser Asp Glu Gln Gly Cys Ser	505	510
515	520	525
Ser Asn Gly Lys Cys Leu Ser Lys Ser Gln Gln Cys Asn Gly Lys Asp		
530	535	540
Asp Cys Gly Asp Gly Ser Asp Glu Ala Ser Cys Pro Lys Val Asn Val		
545	550	555
Val Thr Cys Thr Lys His Thr Tyr Arg Cys Leu Asn Gly Leu Cys Leu		
555	570	575
Ser Lys Gly Asn Pro Glu Cys Asp Gly Lys Glu Asp Cys Ser Asp Gly		
580	585	590
Ser Asp Glu Lys Asp Cys Asp Cys Gly Leu Arg Ser Phe Thr Arg Gln		
595	600	605
Ala Arg Val Val Gly Gly Thr Asp Ala Asp Glu Gly Glu Trp Pro Trp		
610	615	620
Gln Val Ser Leu His Ala Leu Gly Gln Gly His Ile Cys Gly Ala Ser		
625	630	635
Leu Ile Ser Pro Asn Trp Leu Val Ser Ala Ala His Cys Tyr Ile Asp		
645	650	655
Asp Arg Gly Phe Arg Tyr Ser Asp Pro Thr Gln Trp Thr Ala Phe Leu		
660	665	670
Gly Leu His Asp Gln Ser Gln Arg Ser Ala Pro Gly Val Gln Glu Arg		
675	680	685
Arg Leu Lys Arg Ile Ile Ser His Pro Phe Phe Asn Asp Phe Thr Phe		
690	695	700
Asp Tyr Asp Ile Ala Leu Leu Glu Leu Glu Lys Pro Ala Glu Tyr Ser		
705	710	715
Ser Met Val Arg Pro Ile Cys Leu Pro Asp Ala Ser His Val Phe Pro		
725	730	735
Ala Gly Lys Ala Ile Trp Val Thr Gly Trp Gly His Thr Gln Tyr Gly		
740	745	750
Gly Thr Gly Ala Leu Ile Leu Gln Lys Gly Glu Ile Arg Val Ile Asn		
755	760	765
Gln Thr Thr Cys Glu Asn Leu Pro Gln Gln Ile Thr Pro Arg Met		
770	775	780
Met Cys Val Gly Phe Leu Ser Gly Gly Val Asp Ser Cys Gln Gly Asp		
785	790	795
Ser Gly Gly Pro Leu Ser Ser Val Glu Ala Asp Gly Arg Ile Phe Gln		
805	810	815
Ala Gly Val Val Ser Trp Gly Asp Gly Cys Ala Gln Arg Asn Lys Pro		
820	825	830
Gly Val Tyr Thr Arg Leu Pro Leu Phe Arg Asp Trp Ile Lys Glu Asn		
835	840	845
Thr Gly Val		
850 851		

<210> 1144  
 <211> 346  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(346)  
 <223> X = any amino acid or stop code

<400> 1144		
Arg His Glu Glu Asp Leu Gly Asn Leu Trp Glu Asn Thr Arg Phe Thr		
1	5	10
		15

Asp Cys Ser Phe Val Arg Gly Gln Glu Phe Lys Ala His Lys Ser  
           20                 25                 30  
 Val Leu Ala Ala Arg Ser Pro Val Phe Asn Ala Met Phe Glu His Glu  
           35                 40                 45  
 Met Glu Glu Ser Lys Lys Asn Arg Val Glu Ile Asn Asp Leu Asp Pro  
           50                 55                 60  
 Glu Val Phe Lys Glu Met Met Arg Phe Ile Tyr Thr Gly Arg Ala Pro  
           65                 70                 75                 80  
 Asn Leu Asp Lys Met Ala Asp Asn Leu Leu Ala Ala Asp Lys Tyr  
           85                 90                 95  
 Ala Leu Glu Arg Leu Lys Val Met Cys Glu Lys Ala Leu Cys Ser Asn  
           100                105                110  
 Leu Ser Val Glu Asn Val Ala Asp Thr Leu Val Leu Ala Asp Leu His  
           115                120                125  
 Ser Ala Glu Gln Leu Lys Ala Gln Ala Ile Asp Phe Ile Asn Arg Cys  
           130                135                140  
 Ser Val Leu Arg Gln Leu Gly Cys Lys Asp Gly Lys Asn Trp Asn Ser  
           145                150                155                160  
 Asn Gln Ala Thr Asp Ile Met Glu Thr Ser Gly Gly Lys Ser Met Ile  
           165                170                175  
 Gln Ser His Pro His Leu Val Ala Glu Ala Phe Arg Ala Leu Ala Ser  
           180                185                190  
 Ala Gln Gly Pro Gln Phe Gly Ile Pro Arg Lys Arg Leu Lys Gln Ser  
           195                200                205  
 Xaa Asn Leu Gly Asn Leu Trp Glu Asn Thr Arg Phe Thr Asp Cys Ser  
           210                215                220  
 Phe Phe Val Arg Gly Gln Glu Phe Lys Ala His Lys Ser Val Leu Ala  
           225                230                235                240  
 Ala Arg Ser Pro Val Phe Asn Ala Met Phe Glu His Glu Met Glu Glu  
           245                250                255  
 Ser Lys Lys Asn Arg Val Glu Ile Asn Asp Leu Asp Pro Glu Val Phe  
           260                265                270  
 Lys Glu Met Met Arg Phe Ile Tyr Thr Gly Arg Ala Pro Asn Leu Asp  
           275                280                285  
 Lys Met Ala Asp Asn Leu Leu Ala Ala Asp Lys Tyr Ala Leu Glu  
           290                295                300  
 Arg Leu Lys Val Met Cys Glu Lys Ala Leu Cys Ser Asn Leu Ser Val  
           305                310                315                320  
 Glu Asn Val Ala Asp Thr Leu Val Leu Ala Asp Leu His Ser Gly Arg  
           325                330                335  
 Thr Val Glu Ser Thr Ser His Arg Leu Tyr  
           340                345                346

&lt;210&gt; 1145

&lt;211&gt; 339

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(339)

&lt;223&gt; X = any amino acid or stop code

<400> 1145  
 Gln Arg Gly Gly Ile Pro Gly Lys Phe Gln Glu Asp Ser Gly Ser Val  
   1                  5                 10                 15  
 Asp Trp Ala Leu Gly Pro Phe Trp Gly Ile Phe Gln Ala Asp Phe Gly  
   20                 25                 30  
 Cys Met Arg Phe Tyr Leu Ser Ala Gln Thr Ser Asp Pro Val Leu Arg

35	40	45
Met Xaa Trp Gly Pro Ser Pro Ile Ser His Pro Thr Ser Leu Cys Pro		
50	.55	60
Gly Gly Gly Ala Gly Gln Thr Thr Gly Ser Leu Cys Leu Gly Gln		
65	70	75
Gln Cys Cys Pro Leu Ser Cys Pro Asn Ile Pro Ser Arg His Lys Arg		80
85	90	95
Trp Arg Leu Xaa Ala Ala Leu Val Ala Gly Ser Arg Gly Ser Cys Thr		
100	105	110
Leu Arg Ser Xaa Arg Xaa Arg Thr Pro Leu Pro Val Thr Arg Asn Leu		
115	120	125
Pro Arg Cys His Leu His Leu His Pro Thr Gly Asp Leu Arg Val His		
130	135	140
Val His Gln His Cys Leu Leu His Gly His Val Pro Pro Gly Ala Ala		
145	150	155
Leu Leu Gln Cys Gly Gly Cys Asp Leu Arg Gly Glu Ala Ala Gly Leu		160
165	170	175
Leu Phe Leu Gly His Ala Cys Leu Arg Gly Ser Val Asn Leu Arg Arg		
180	185	190
Asp Gln Trp Leu Pro Val Pro Tyr Ser Arg Leu Cys Phe Ser Gly Ala		
195	200	205
Arg Glu Gly His Leu Pro Ser Leu Leu Ala Met Ile His Val Arg His		
210	215	220
Cys Thr Pro Ile Pro Ala Leu Leu Val Cys Pro Ile Lys Val Asn Leu		
225	230	235
Leu Ile Pro Val Ala Tyr Leu Val Phe Trp Ala Phe Leu Leu Val Phe		240
245	250	255
Ser Phe Ile Ser Glu His Met Val Cys Gly Val Gly Val Ile Ile Ile		
260	265	270
Leu Thr Gly Val Pro Ile Phe Phe Leu Gly Val Phe Trp Arg Ser Lys		
275	280	285
Pro Lys Cys Val His Arg Leu Thr Glu Ser Met Thr His Trp Gly Gln		
290	295	300
Glu Leu Cys Phe Val Val Tyr Pro Gln Asp Ala Pro Glu Glu Glu		
305	310	315
Asn Gly Pro Cys Pro Pro Ser Leu Leu Pro Ala Thr Asp Lys Pro Ser		320
325	330	335
Lys Pro Gln		
339		

<210> 1146  
<211> 425  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(425)  
<223> X = any amino acid or stop code

1	5	10	15
His Leu Pro Val Gly Cys Val Ser Phe Gln Asn Ile Ser Ser Asn Val			
20	25	30	
Leu Glu Glu Ser Ala Ile Ser Asp Asp Ile Leu Ser Pro Asp Glu Glu			
35	40	45	
Gly Phe Cys Ser Gly Lys His Phe Thr Glu Leu Gly Leu Val Gly Leu			
50	55	60	

Leu Glu Gln Ala Ala Gly Tyr Phe Thr Met Gly Gly Leu Tyr Glu Ala  
 65 70 75 80  
 Val Asn Glu Val Tyr Lys Asn Leu Ile Pro Ile Leu Glu Ala His Arg  
     85      90      95  
 Asp Tyr Lys Lys Leu Ala Ala Val His Gly Lys Leu Gln Glu Ala Phe  
     100      105      110  
 Thr Lys Ile Met His Gln Ser Ser Gly Trp Glu Arg Val Phe Gly Thr  
     115      120      125  
 Tyr Phe Arg Val Gly Phe Tyr Gly Ala His Phe Gly Asp Leu Asp Glu  
     130      135      140  
 Gln Glu Phe Val Tyr Lys Glu Pro Ser Ile Thr Lys Leu Ala Glu Ile  
     145      150      155      160  
 Ser His Arg Leu Glu Glu Phe Tyr Thr Glu Arg Phe Gly Asp Asp Val  
     165      170      175  
 Val Glu Ile Ile Lys Asp Ser Asn Pro Val Asp Lys Ser Lys Leu Asp  
     180      185      190  
 Ser Gln Lys Ala Tyr Ile Gln Ile Thr Tyr Val Glu Pro Tyr Phe Asp  
     195      200      205  
 Thr Tyr Glu Leu Lys Asp Arg Val Thr Tyr Phe Asp Arg Asn Tyr Gly  
     210      215      220  
 Leu Arg Thr Phe Leu Phe Cys Thr Pro Phe Thr Pro Asp Gly Arg Ala  
     225      230      235      240  
 His Gly Glu Leu Pro Glu Gln His Lys Arg Lys Thr Leu Leu Ser Thr  
     245      250      255  
 Asp His Ala Phe Pro Tyr Ile Lys Thr Arg Ile Arg Val Cys His Arg  
     260      265      270  
 Glu Glu Thr Val Leu Thr Pro Val Glu Val Ala Ile Glu Asp Met Gln  
     275      280      285  
 Lys Lys Thr Arg Glu Leu Ala Phe Ala Thr Glu Gln Asp Pro Pro Asp  
     290      295      300  
 Ala Lys Met Leu Gln Met Val Leu Gln Gly Ser Val Gly Pro Thr Val  
     305      310      315      320  
 Asn Gln Gly Pro Leu Glu Val Ala Gln Val Phe Leu Ala Glu Ile Pro  
     325      330      335  
 Glu Asp Pro Lys Leu Phe Arg His His Asn Lys Leu Arg Leu Cys Phe  
     340      345      350  
 Lys Asp Phe Xaa Lys Lys Cys Glu Asp Ala Leu Arg Lys Asn Lys Ala  
     355      360      365  
 Leu Ile Gly Pro Asp Gln Lys Glu Tyr His Arg Glu Leu Glu Arg Asn  
     370      375      380  
 Tyr Cys Arg Leu Arg Glu Ala Leu Gln Pro Leu Leu Thr Gln Arg Leu  
     385      390      395      400  
 Pro Gln Leu Met Ala Pro Thr Pro Pro Gly Leu Arg Asn Ser Leu Asn  
     405      410      415  
 Arg Ala Ser Phe Arg Lys Ala Asp Leu  
     420      425

<210> 1147  
 <211> 198  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> {1}...{198}  
 <223> X = any amino acid or stop code

<400> 1147  
 Gly Glu Gly Gln Gln Trp Gln Ser Thr Pro Leu Ser Pro Leu Gln Pro

1	5	10	15
Thr Val Ala Asp Phe Leu Asn Leu Ala Trp Trp Thr Ser Ala Ala Ala			
20	25	30	
Trp Xaa Val Leu Ser Gly Arg Trp Val Glu Lys Val Leu Pro Gly Arg			
35	40	45	
Glu Gly Ser Glu Glu Lys Xaa Gly Met Ala Ser Ser Ala Asp His			
50	55	60	
Leu His Ser Ala Pro Arg Ala Leu Gln Ser Leu Phe Gln Gln Leu Leu			
65	70	75	80
Tyr Gly Leu Ile Tyr His Ser Trp Phe Gln Ala Gly Arg Xaa Gly Phe			
85	90	95	
Gly Gly Ala Ser Ser Ser Pro Gly Pro Gln Ser Glu Leu Arg Arg Leu			
100	105	110	
His Gly Glu Gly Val Tyr Asp Xaa Gly Arg Pro Glu Thr Leu Pro			
115	120	125	
Gly Ser Val Gly Gly Ala Glu Ala Leu Trp Ala Leu Ala Asp Pro Ala			
130	135	140	
Glu Ala Glu Gly Ser Pro Glu Thr Arg Glu Ser Ser Cys Val Met Lys			
145	150	155	160
Gln Thr Gln Tyr Tyr Phe Gly Ser Val Asn Ala Ser Tyr Asn Ala Ile			
165	170	175	
Ile Asp Cys Gly Asn Cys Ser Arg Cys Trp Gln Trp Gly Gly Thr Arg			
180	185	190	
Gly Gln Gly Arg Asn Leu			
195	198		

<210> 1148  
<211> 317  
<212>Amino acid  
<213> Homo sapiens

1	5	10	15
Val Ala Gly Ile Pro Ala Cys Phe Asp Asn Phe Thr Glu Ala Leu Ala			
20	25	30	
Glu Thr Ala Cys Arg Gln Met Gly Tyr Ser Ser Lys Pro Thr Phe Arg			
35	40	45	
Ala Val Glu Ile Gly Pro Asp Gln Asp Leu Asp Val Val Glu Ile Thr			
50	55	60	
Glu Asn Ser Gln Glu Leu Arg Met Arg Asn Ser Ser Gly Pro Cys Leu			
65	70	75	80
Ser Gly Ser Leu Val Ser Leu His Cys Leu Ala Cys Gly Glu Ser Leu			
85	90	95	
Lys Thr Pro Arg Val Val Gly Gly Glu Ala Ser Val Asp Ser Trp			
100	105	110	
Pro Trp Gln Val Ser Ile Gln Tyr Asp Lys Gln His Val Cys Gly Gly			
115	120	125	
Ser Ile Leu Asp Pro His Trp Val Leu Thr Ala Ala His Cys Phe Arg			
130	135	140	
Lys His Thr Asp Val Phe Asn Trp Lys Val Arg Ala Gly Ser Asp Lys			
145	150	155	160
Leu Gly Ser Phe Pro Ser Leu Ala Val Ala Lys Ile Ile Ile Ile Glu			
165	170	175	
Phe Asn Pro Met Tyr Pro Lys Asp Asn Asp Ile Ala Leu Met Lys Leu			
180	185	190	
Gln Phe Pro Leu Thr Phe Ser Gly Thr Val Arg Pro Ile Cys Leu Pro			
195	200	205	
Phe Phe Asp Glu Glu Leu Thr Pro Ala Thr Pro Leu Trp Ile Ile Gly			
Trp Gly Phe Thr Lys Gln Asn Gly Gly Lys Met Ser Asp Ile Leu Leu			

210	215	220		
Gln Ala Ser Val Gln Val Ile Asp Ser Thr Arg Cys Asn Ala Asp Asp	225	230	235	240
Ala Tyr Gln Gly Glu Val Thr Glu Lys Met Met Cys Ala Gly Ile Pro	245	250	255	
Glu Gly Val Asp Thr Cys Gln Gly Asp Ser Gly Gly Pro Leu Met	260	265	270	
Tyr Gln Ser Asp Gln Trp His Val Val Gly Ile Val Ser Trp Gly Tyr	275	280	285	
Gly Cys Gly Gly Pro Ser Thr Pro Gly Val Tyr Thr Lys Val Ser Ala	290	295	300	
Tyr Leu Asn Trp Ile Tyr Asn Val Trp Lys Ala Glu Leu	305	310	315	317

<210> 1149  
<211> 320  
<212>Amino acid  
<213> Homo sapiens

<400> 1149				
Thr Ile Ser Thr Val Val Arg Trp Asn Ser Arg Ile Gly Met Val Leu Gly	1	5	10	15
Val Ala Ile Gln Lys Arg Ala Val Pro Gly Leu Tyr Ala Phe Glu Glu	20	25	30	
Ala Tyr Ala Arg Ala Asp Lys Glu Ala Pro Arg Pro Cys His Lys Gly	35	40	45	
Ser Trp Cys Ser Ser Asn Gln Leu Cys Arg Glu Cys Gln Ala Phe Met	50	55	60	
Ala His Thr Met Pro Lys Leu Lys Ala Phe Ser Met Ser Ser Ala Tyr	65	70	75	80
Asn Ala Tyr Arg Ala Val Tyr Ala Val Ala His Gly Leu His Gln Leu	85	90	95	
Leu Gly Cys Ala Ser Gly Ala Cys Ser Arg Gly Arg Val Tyr Pro Trp	100	105	110	
Gln Leu Leu Glu Gln Ile His Lys Val His Phe Leu Leu His Lys Asp	115	120	125	
Thr Val Ala Phe Asn Asn Arg Asp Pro Leu Ser Ser Tyr Asn Ile	130	135	140	
Ile Ala Trp Asp Trp Asn Gly Pro Lys Trp Thr Phe Thr Val Leu Gly	145	150	155	160
Ser Ser Thr Trp Ser Pro Val Gln Leu Asn Ile Asn Glu Thr Lys Ile	165	170	175	
Gln Trp His Gly Lys Asp Asn Gln Val Pro Lys Ser Val Cys Ser Ser	180	185	190	
Asp Cys Leu Glu Gly His Gln Arg Val Val Thr Gly Phe His His Cys	195	200	205	
Cys Phe Glu Cys Val Pro Cys Gly Ala Gly Thr Phe Leu Asn Lys Ser	210	215	220	
Ser Tyr Leu Gly Lys Asp Leu Pro Glu Asn Tyr Asn Glu Ala Lys Cys	225	230	235	240
Val Thr Phe Ser Leu Leu Phe Asn Phe Val Ser Trp Ile Ala Phe Phe	245	250	255	
Thr Thr Ala Ser Val Phe Asp Gly Lys Tyr Leu Pro Ala Ala Asn Met	260	265	270	
Met Ala Gly Leu Ser Ser Leu Ser Ser Gly Phe Gly Gly Tyr Phe Leu	275	280	285	
Pro Lys Cys Tyr Val Ile Leu Cys Arg Pro Asp Leu Asn Ser Thr Glu	290	295	300	
His Phe Gln Ala Ser Ile Gln Asp Tyr Thr Arg Arg Cys Gly Ser Thr				

305

310

315

320

<210> 1150  
<211> 458  
<212>Amino acid  
<213> Homo sapiens

<400> 1150  
Val Ala Arg Gly Ala Phe His Pro Lys Met Gly Pro Ser Phe Pro Ser  
1 5 10 15  
Pro Lys Pro Gly Ser Glu Arg Leu Ser Phe Val Ser Ala Lys Gln Ser  
20 25 30  
Thr Gly Gln Asp Thr Glu Ala Glu Leu Gln Asp Ala Thr Leu Ala Leu  
35 40 45  
His Gly Leu Thr Val Glu Asp Glu Gly Asn Tyr Thr Cys Glu Phe Ala  
50 55 60  
Thr Phe Pro Lys Gly Ser Val Arg Gly Met Thr Trp Leu Arg Val Ile  
65 70 75 80  
Ala Lys Pro Lys Asn Gln Ala Glu Ala Gln Lys Val Thr Phe Ser Gln  
85 90 95  
Asp Pro Thr Thr Val Ala Leu Cys Ile Ser Lys Glu Gly Arg Pro Pro  
100 105 110  
Ala Arg Ile Ser Trp Leu Ser Ser Leu Asp Trp Glu Ala Lys Glu Thr  
115 120 125  
Gln Val Ser Gly Thr Leu Ala Gly Thr Val Thr Val Thr Ser Arg Phe  
130 135 140  
Thr Leu Val Pro Ser Gly Arg Ala Asp Gly Val Thr Val Thr Cys Lys  
145 150 155 160  
Val Glu His Glu Ser Phe Glu Glu Pro Ala Leu Ile Pro Val Thr Leu  
165 170 175  
Ser Val Arg Tyr Pro Pro Glu Val Ser Ile Ser Gly Tyr Asp Asp Asn  
180 185 190  
Trp Tyr Leu Gly Arg Thr Asp Ala Thr Leu Ser Cys Asp Val Arg Ser  
195 200 205  
Asn Pro Glu Pro Thr Gly Tyr Asp Trp Ser Thr Thr Ser Gly Thr Phe  
210 215 220  
Pro Thr Ser Ala Val Ala Gln Gly Ser Gln Leu Val Ile His Ala Val  
225 230 235 240  
Asp Ser Leu Phe Asn Thr Thr Phe Val Cys Thr Val Thr Asn Ala Val  
245 250 255  
Gly Met Gly Arg Ala Glu Gln Val Ile Phe Val Arg Glu Thr Pro Asn  
260 265 270  
Thr Ala Gly Ala Gly Ala Thr Gly Gly Ile Ile Gly Gly Ile Ile Ala  
275 280 285  
Ala Ile Ile Ala Thr Ala Asp Ala Thr Gly Ile Leu Ile Cys Arg Gln  
290 295 300  
Gln Arg Lys Glu Gln Thr Leu Gln Gly Ala Glu Asp Glu Asp Leu  
305 310 315 320  
Glu Gly Pro Pro Ser Tyr Lys Pro Pro Thr Pro Lys Ala Lys Leu Glu  
325 330 335  
Ala Gln Glu Met Pro Ser Gln Leu Phe Thr Leu Gly Ala Ser Glu His  
340 345 350  
Ser Pro Leu Lys Thr Pro Tyr Phe Asp Ala Gly Ala Ser Cys Thr Glu  
355 360 365  
Gln Glu Met Pro Arg Tyr His Glu Leu Pro Thr Leu Glu Glu Arg Ser  
370 375 380  
Gly Pro Leu His Pro Gly Ala Thr Ser Leu Gly Ser Pro Ile Pro Val

385	390	395	400
Pro Pro Gly Pro Pro Ala Val Glu Asp Val Ser Leu Asp Leu Glu Asp			
405	410	415	
Glu Glu Gly Glu Glu Glu Glu Tyr Leu Asp Lys Ile Asn Pro Ile			
420	425	430	
Tyr Asp Ala Leu Ser Tyr Ser Ser Pro Ser Asp Ser Tyr Gln Gly Lys			
435	440	445	
Gly Phe Val Met Ser Arg Ala Met Tyr Val	455	458	
450			

<210> 1151  
<211> 608  
<212>Amino acid  
<213> Homo sapiens

<400> 1151			
Gly Thr Arg Leu Arg Glu Asp Lys Asn His Asn Met Tyr Val Ala Gly			
1	5	10	15
Cys Thr Glu Val Glu Val Lys Ser Thr Glu Ala Phe Glu Val Phe			
20	25	30	
Trp Arg Gly Gln Iys Lys Arg Arg Ile Ala Asn Thr His Leu Asn Arg			
35	40	45	
Glu Ser Ser Arg Ser His Ser Val Phe Asn Ile Lys Leu Val Gln Ala			
50	55	60	
Pro Leu Asp Ala Asp Gly Asp Asn Val Leu Gln Glu Lys Glu Gln Ile			
65	70	75	80
Thr Ile Ser Gln Leu Ser Leu Val Asp Leu Ala Gly Ser Glu Arg Thr			
85	90	95	
Asn Arg Thr Arg Ala Glu Gly Asn Arg Leu Arg Glu Ala Gly Asn Ile			
100	105	110	
Asn Gln Ser Leu Met Thr Leu Arg Thr Cys Met Asp Val Leu Arg Glu			
115	120	125	
Asn Gln Met Tyr Gly Thr Asn Lys Met Val Pro Tyr Arg Asp Ser Lys			
130	135	140	
Leu Thr His Leu Phe Lys Asn Tyr Phe Asp Gly Glu Lys Val Arg			
145	150	155	160
Met Ile Val Cys Val Asn Pro Lys Ala Glu Asp Tyr Glu Glu Asn Leu			
165	170	175	
Gln Val Met Arg Phe Ala Glu Val Thr Gln Glu Val Glu Val Ala Arg			
180	185	190	
Pro Val Asp Lys Ala Ile Cys Gly Leu Thr Pro Gly Arg Arg Tyr Arg			
195	200	205	
Asn Gln Pro Arg Gly Pro Ile Gly Asn Glu Pro Leu Val Thr Asp Val			
210	215	220	
Val Leu Gln Ser Phe Pro Pro Leu Pro Ser Cys Glu Ile Leu Asp Ile			
225	230	235	240
Asn Asp Glu Gln Thr Leu Pro Arg Leu Ile Glu Ala Leu Glu Lys Arg			
245	250	255	
His Asn Leu Arg Gln Met Met Ile Asp Glu Phe Asn Lys Gln Ser Asn			
260	265	270	
Ala Phe Lys Ala Leu Leu Gln Glu Phe Asp Asn Ala Val Leu Ser Lys			
275	280	285	
Glu Asn His Met Gln Gly Lys Leu Asn Glu Lys Glu Lys Met Ile Ser			
290	295	300	
Gly Gln Lys Leu Glu Ile Glu Arg Leu Glu Lys Lys Asn Lys Thr Leu			
305	310	315	320
Glu Tyr Lys Ile Glu Ile Leu Glu Lys Thr Thr Ile Tyr Glu Glu			
325	330	335	
Asp Lys Arg Asn Leu Gln Gln Glu Leu Glu Thr Gln Asn Gln Lys Leu			

Gln	Arg	Gln	Phe	Ser	Asp	Lys	Arg	Arg	Leu	Glu	Ala	Arg	Leu	Gln	Gly
340						345						350			
355						360						365			
Met	Val	Thr	Glu	Thr	Thr	Met	Lys	Trp	Glu	Lys	Glu	Cys	Glu	Arg	Arg
370						375						380			
Val	Ala	Ala	Lys	Gln	Leu	Gl	Met	Gln	Asn	Lys	Leu	Trp	Val	Lys	Asp
385						390						395			400
Glu	Lys	Leu	Lys	Gln	Leu	Lys	Ala	Ile	Val	Thr	Glu	Pro	Lys	Thr	Glu
405						410									415
Lys	Pro	Glu	Arg	Pro	Ser	Arg	Glu	Arg	Asp	Arg	Glu	lys	Val	Thr	Gln
420						425									430
Arg	Ser	Val	Ser	Pro	Ser	Pro	Val	Pro	Leu	Leu	Phe	Gln	Pro	Asp	Gln
435						440									445
Asn	Ala	Pro	Pro	Ile	Arg	Leu	Arg	His	Arg	Arg	Ser	Arg	Ser	Ala	Gly
450						455						460			
Asp	Arg	Trp	Val	Asp	His	Lys	Pro	Ala	Ser	Asn	Met	Gln	Thr	Glu	Thr
465						470						475			480
Val	Met	Gln	Pro	His	Val	Pro	His	Ala	Ile	Thr	Val	Ser	Val	Ala	Asn
485						490						495			
Glu	Lys	Ala	Leu	Ala	Lys	Cys	Glu	Lys	Tyr	Met	Leu	Thr	His	Gln	Glu
500						505						510			
Leu	Ala	Ser	Asp	Gly	Glu	Ile	Glu	Thr	Lys	Leu	Ile	Lys	Gly	Asp	Ile
515						520						525			
Tyr	Lys	Thr	Arg	Gly	Gly	Gly	Gly	Gly	Ser	Val	Gln	Phe	Thr	Asp	Ile
530						535						540			
Thr	Leu	Lys	Gln	Glu	Ser	Pro	Asn	Gly	Ser	Arg	Lys	Arg	Arg	Ser	Ser
545						550						555			560
Thr	Val	Ala	Pro	Ala	Gln	Pro	Asp	Gly	Ala	Glu	Ser	Glu	Trp	Thr	Asp
565						570						575			
Val	Glu	Thr	Arg	Cys	Ser	Val	Ala	Val	Glu	Met	Arg	Ala	Gly	Ser	Gln
580						585						590			
Leu	Gly	Pro	Gly	Tyr	Gln	His	Ala	Gln	Pro	Lys	Arg	Lys	Lys	Pro	
595						600						605			608

<210> 1152  
<211> 111  
<212>Amino acid  
<213> Homo sapiens

Pro	Phe	Ser	Ser	Ser	Ser	Val	Ser	Ser	Lys	Gly	Ser	Asp	Pro	Phe	Gly
1						5			10			15			
Thr	Leu	Asp	Pro	Phe	Gly	Ser	Gly	Ser	Phe	Asn	Ser	Ala	Glu	Gly	Phe
						20			25			30			
Ala	Asp	Phe	Ser	Gln	Met	Ser	Lys	Gly	Lys	Ser	Thr	Pro	Val	Ser	Gln
						35			40			45			
Leu	Gly	Ser	Ala	Asp	Phe	Pro	Glu	Ala	Pro	Asp	Pro	Phe	Gln	Pro	Leu
						50			55			60			
Gly	Ala	Asp	Ser	Gly	Asp	Pro	Phe	Gln	Ser	Lys	Lys	Gly	Phe	Gly	Asp
						65			70			75			80
Pro	Phe	Ser	Gly	Lys	Asp	Pro	Phe	Val	Pro	Ser	Ser	Ala	Lys	Pro	
						85			90			95			
Ser	Lys	Ala	Ser	Ala	Ser	Gly	Phe	Ala	Asp	Phe	Thr	Ser	Val	Ser	
						100			105			110			111

&lt;210&gt; 1153

<211> 444  
<212> Amino acid  
<213> Homo sapiens

<400> 1153  
Met Ser Ieu Met Val Val Ser Met Ala Cys Val Gly Leu Phe Leu Val  
1 5 10 15  
Gln Arg Ala Gly Pro His Met Gly Gly Gln Asp Lys Pro Phe Leu Ser  
20 25 30  
Ala Trp Pro Ser Ala Val Val Pro Arg Gly Gly His Val Thr Leu Arg  
35 40 45  
Cys His Tyr Arg His Arg Phe Asn Asn Phe Met Leu Tyr Lys Glu Asp  
50 55 60  
Arg Ile His Ile Pro Ile Phe His Gly Arg Ile Phe Gln Glu Ser Phe  
65 70 75 80  
Asn Met Ser Pro Val Thr Thr Ala His Ala Gly Asn Tyr Thr Cys Arg  
85 90 95  
Gly Ser His Pro His Ser Pro Thr Gly Trp Ser Ala Pro Ser Asn Pro  
100 105 110  
Val Val Ile Met Val Thr Gly Asn His Arg Lys Pro Ser Leu Leu Ala  
115 120 125  
His Pro Gly Pro Leu Val Lys Ser Gly Glu Arg Val Ile Leu Gln Cys  
130 135 140  
Trp Ser Asp Ile Met Phe Glu His Phe Leu His Lys Glu Gly Ile  
145 150 155 160  
Ser Lys Asp Pro Ser Arg Leu Val Gly Gln Ile His Asp Gly Val Ser  
165 170 175  
Lys Ala Asn Phe Ser Ile Gly Pro Met Met Gln Asp Leu Ala Gly Thr  
180 185 190  
Tyr Arg Cys Tyr Gly Ser Val Thr His Ser Pro Tyr Gln Leu Ser Ala  
195 200 205  
Pro Ser Asp Pro Leu Asp Ile Val Ile Thr Gly Leu Tyr Glu Lys Pro  
210 215 220  
Ser Leu Ser Ala Gln Pro Gly Pro Thr Val Leu Ala Gly Glu Ser Val  
225 230 235 240  
Thr Leu Ser Cys Ser Ser Arg Ser Tyr Asp Met Tyr His Leu Ser  
245 250 255  
Arg Glu Gly Glu Ala His Glu Arg Arg Phe Ser Ala Gly Pro Lys Val  
260 265 270  
Asn Gly Thr Phe Gln Ala Asp Phe Pro Leu Gly Pro Ala Thr His Gly  
275 280 285  
Gly Thr Tyr Arg Cys Phe Gly Ser Phe Arg Asp Ser Pro Tyr Glu Trp  
290 295 300  
Ser Asn Ser Ser Asp Pro Leu Leu Val Ser Val Thr Gly Asn Pro Ser  
305 310 315 320  
Asn Ser Trp Pro Ser Pro Thr Glu Pro Ser Ser Glu Thr Gly Asn Pro  
325 330 335  
Arg His Leu His Val Leu Ile Gly Thr Ser Val Val Ile Ile Leu Phe  
340 345 350  
Ile Leu Leu Leu Phe Phe Leu Leu His Arg Trp Cys Ser Asn Lys Lys  
355 360 365  
Asn Ala Ala Val Met Asp Gln Glu Ser Ala Gly Asn Arg Thr Ala Asn  
370 375 380  
Ser Glu Asp Ser Asp Glu Gln Asp Pro Gln Glu Val Thr Tyr Thr Gln  
385 390 395 400  
Leu Asn His Cys Val Phe Thr Gln Arg Lys Ile Thr Arg Pro Ser Gln  
405 410 415  
Arg Pro Lys Thr Pro Pro Thr Asp Ile Ile Val Tyr Thr Glu Leu Pro  
420 425 430  
Asn Ala Glu Ser Arg Ser Lys Val Val Ser Cys Pro

435

440

444

<210> 1154  
<211> 522  
<212>Amino acid  
<213> Homo sapiens

<400> 1154  
Met Ser Leu Arg Val His Thr Leu Pro Thr Leu Leu Gly Ala Val Val  
1 5 10 15  
Arg Pro Gly Cys Arg Glu Leu Leu Cys Leu Leu Met Ile Thr Val Thr  
20 25 30  
Val Gly Pro Gly Ala Ser Gly Val Cys Pro Thr Ala Cys Ile Cys Ala  
35 40 45  
Thr Asp Ile Val Ser Cys Thr Asn Lys Asn Leu Ser Lys Val Pro Gly  
50 55 60  
Asn Leu Phe Arg Leu Ile Lys Arg Leu Asp Leu Ser Tyr Asn Arg Ile  
65 70 75 80  
Gly Leu Leu Asp Ser Glu Trp Ile Pro Val Ser Phe Ala Lys Leu Asn  
85 90 95  
Thr Leu Ile Leu Arg His Asn Asn Ile Thr Ser Ile Ser Thr Gly Ser  
100 105 110  
Phe Ser Thr Thr Pro Asn Leu Lys Cys Leu Asp Leu Ser Ser Asn Lys  
115 120 125  
Leu Lys Thr Val Lys Asn Ala Val Phe Gln Glu Leu Lys Val Leu Glu  
130 135 140  
Val Leu Leu Leu Tyr Asn Asn His Ile Ser Tyr Leu Asp Pro Ser Ala  
145 150 155 160  
Phe Gly Gly Leu Ser Gln Leu Gln Lys Leu Tyr Leu Ser Gly Asn Phe  
165 170 175  
Leu Thr Gln Phe Pro Met Asp Leu Tyr Val Gly Arg Phe Lys Leu Ala  
180 185 190  
Glu Leu Met Phe Leu Asp Val Ser Tyr Asn Arg Ile Pro Ser Met Pro  
195 200 205  
Met His His Ile Asn Leu Val Pro Gly Lys Gln Leu Arg Gly Ile Tyr  
210 215 220  
Leu His Gly Asn Pro Phe Val Cys Asp Cys Ser Leu Val Ser Leu Leu  
225 230 235 240  
Val Phe Trp Tyr Arg Arg His Phe Ser Ser Val Met Asp Phe Lys Asn  
245 250 255  
Asp Tyr Thr Cys Arg Leu Trp Ser Asp Ser Arg His Ser Arg Gln Val  
260 265 270  
Leu Leu Leu Gln Asp Ser Phe Met Asn Cys Ser Asp Ser Ile Ile Asn  
275 280 285  
Gly Ser Phe Arg Ala Leu Gly Phe Ile His Glu Ala Gln Val Gly Glu  
290 295 300  
Arg Leu Met Val His Cys Asp Ser Lys Thr Gly Asn Ala Asn Thr Asp  
305 310 315 320  
Phe Ile Trp Val Gly Pro Asp Asn Arg Leu Leu Glu Pro Asp Lys Glu  
325 330 335  
Met Glu Asn Phe Tyr Val Phe His Asn Gly Ser Leu Val Ile Glu Ser  
340 345 350  
Pro Arg Phe Glu Asp Ala Gly Val Tyr Ser Cys Ile Ala Met Asn Lys  
355 360 365  
Gln Arg Leu Leu Asn Glu Thr Val Asp Val Thr Ile Asn Val Ser Asn  
370 375 380  
Phe Thr Val Ser Arg Ser His Ala His Glu Ala Phe Asn Thr Ala Phe  
385 390 395 400  
Thr Thr Leu Ala Ala Cys Val Ala Ser Ile Val Leu Val Leu Tyr

Leu	Tyr	Leu	Thr	Pro	Cys	Pro	Cys	Lys	Cys	Lys	Thr	Lys	Arg	Gln	Gln	Lys
405								410					415			
				420				425					430			
Asn	Met	Leu	His	Gln	Ser	Asn	Ala	His	Ser	Ser	Ile	Leu	Ser	Pro	Gly	
				435				440					445			
Pro	Ala	Ser	Asp	Ala	Ser	Ala	Asp	Glu	Arg	Lys	Ala	Gly	Ala	Gly	Lys	
				450				455					460			
Arg	Val	Val	Phe	Leu	Glu	Pro	Leu	Lys	Asp	Thr	Ala	Ala	Gly	Gln	Asn	
				465				470					475			480
Gly	Lys	Val	Arg	Leu	Phe	Pro	Ser	Glu	Ala	Val	Ile	Ala	Glu	Gly	Ile	
				485				490					495			
Leu	Lys	Ser	Thr	Arg	Gly	Lys	Ser	Asp	Ser	Asp	Ser	Val	Asn	Ser	Val	
				500				505					510			
Phe	Ser	Asp	Thr	Pro	Phe	Val	Ala	Ser	Thr							
				515				520					522			

<210> 1155  
<211> 642  
<212>Amino acid  
<213> Homo sapiens

Ala	Ser	Asp	Phe	Ile	Arg	Ser	Leu	Asp	His	Cys	Gly	Tyr	Ile	Ser	Leu
1				5					10				15		
Glu	Gly	Val	Phe	Ser	His	Lys	Phe	Asp	Phe	Glu	Leu	Gln	Asp	Val	Ser
					20				25				30		
Ser	Val	Asn	Glu	Asp	Val	Leu	Leu	Thr	Thr	Gly	Leu	Leu	Cys	Tyr	
					35				40				45		
Thr	Ala	Gln	Arg	Phe	Lys	Pro	Lys	Tyr	Lys	Phe	Phe	His	Lys	Ser	Phe
					50				55			60			
Gln	Glu	Tyr	Thr	Ala	Gly	Arg	Arg	Leu	Ser	Ser	Leu	Leu	Thr	Ser	His
					65				70			75			80
Glu	Pro	Glu	Glu	Val	Thr	Lys	Gly	Asn	Gly	Tyr	Leu	Gln	Lys	Met	Val
					85				90			95			
Ser	Ile	Ser	Asp	Ile	Thr	Ser	Thr	Tyr	Ser	Ser	Leu	Leu	Arg	Tyr	Thr
					100				105				110		
Cys	Gly	Ser	Ser	Val	Glu	Ala	Thr	Arg	Ala	Val	Met	Lys	His	Leu	Ala
					115				120			125			
Ala	Val	Tyr	Gln	His	Gly	Cys	Leu	Leu	Gly	Leu	Ser	Ile	Ala	Lys	Arg
					130				135			140			
Pro	Leu	Trp	Arg	Gln	Glu	Ser	Leu	Gln	Ser	Val	Lys	Asn	Thr	Thr	Glu
					145				150			155			160
Gln	Glu	Ile	Leu	Lys	Ala	Ile	Asn	Ile	Asn	Ser	Phe	Val	Glu	Cys	Gly
					165				170			175			
Ile	His	Leu	Tyr	Gln	Glu	Ser	Thr	Ser	Lys	Ser	Ala	Leu	Ser	Gln	Glu
					180				185			190			
Phe	Glu	Ala	Phe	Phe	Gln	Gly	Lys	Ser	Leu	Tyr	Ile	Asn	Ser	Gly	Asn
					195				200			205			
Ile	Pro	Asp	Tyr	Leu	Phe	Asp	Phe	Glu	His	Leu	Pro	Asn	Cys	Ala	
					210				215			220			
Ser	Ala	Leu	Asp	Phe	Ile	Lys	Leu	Gly	Phe	Tyr	Gly	Gly	Ala	Met	Ala
					225				230			235			240
Ser	Trp	Glu	Lys	Ala	Ala	Glu	Asp	Thr	Gly	Gly	Ile	His	Met	Glu	Glu
					245				250			255			
Ala	Pro	Glu	Thr	Tyr	Ile	Pro	Ser	Arg	Ala	Val	Ser	Leu	Phe	Phe	Asn
					260				265			270			
Trp	Lys	Gln	Glu	Phe	Arg	Thr	Leu	Glu	Val	Thr	Leu	Arg	Asp	Phe	Ser
					275				280			285			
Lys	Leu	Asn	Lys	Gln	Asp	Ile	Arg	Tyr	Leu	Gly	Lys	Ile	Phe	Ser	Ser

290	295	300
Ala Thr Ser Leu Arg	Leu Gln Ile Lys Arg	Cys Ala Gly Val Ala Gly
305	310	315
Ser Leu Ser Leu Val	Leu Ser Thr Cys Lys Asn Ile Tyr Ser	Leu Met
325	330	335
Val Glu Ala Ser Pro	Leu Thr Ile Glu Asp Glu Arg His	Ile Thr Ser
340	345	350
Val Thr Asn Leu Lys	Thr Leu Ser Ile His Asp Leu Gln Asn Gln Arg	
355	360	365
Leu Pro Gly Gly	Leu Thr Asp Ser Leu Gly Asn Leu Lys Asn Leu Thr	
370	375	380
Lys Leu Ile Met Asp	Asn Ile Lys Met Asn Glu Glu Asp Ala Ile Lys	
385	390	395
Leu Ala Glu Gly	Leu Lys Asn Leu Lys Lys Met Cys Leu Phe His Leu	
405	410	415
Thr His Leu Ser Asp	Ile Gly Glu Gly Met Asp Tyr Ile Val Lys Ser	
420	425	430
Leu Ser Ser Glu Pro	Cys Asp Leu Glu Glu Ile Gln Leu Val Ser Cys	
435	440	445
Cys Leu Ser Ala Asn	Ala Val Lys Ile Leu Ala Gln Asn Leu His Asn	
450	455	460
Leu Val Lys Leu Ser	Ile Leu Asp Leu Ser Glu Asn Tyr Leu Glu Lys	
465	470	475
Asp Gly Asn Glu	Ala Leu His Glu Leu Ile Asp Arg Met Asn Val Leu	
485	490	495
Glu Gln Leu Thr Ala	Leu Met Leu Pro Trp Gly Cys Asp Val Gln Gly	
500	505	510
Ser Leu Ser Ser Leu	Leu Lys His Leu Glu Glu Val Pro Gln Leu Val	
515	520	525
Lys Leu Gly Leu Lys	Asn Trp Arg Leu Thr Asp Thr Glu Ile Arg Ile	
530	535	540
Leu Gly Ala Phe Phe	Gly Lys Asn Pro Leu Lys Asn Phe Gln Gln Leu	
545	550	555
Asn Leu Ala Gly	Asn Arg Val Ser Ser Asp Gly Trp Leu Ala Phe Met	
565	570	575
Gly Val Phe Glu Asn	Leu Lys Gln Leu Val Phe Phe Asp Phe Ser Thr	
580	585	590
Lys Glu Phe Leu Pro	Asp Pro Ala Leu Val Arg Lys Leu Ser Gln Val	
595	600	605
Leu Ser Lys Leu Thr	Pha Leu Gln Glu Ala Arg Leu Val Gly Trp Gln	
610	615	620
Phe Asp Asp Asp	Asp Leu Ser Val Ile Thr Gly Ala Phe Lys Leu Val	
625	630	635
Thr Ala		640
642		

<210> 1156  
 <211> 125  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(125)  
 <223> X = any amino acid or stop code

<400> 1156		
Ala Ser Asp Arg Lys Val Ala Met Thr Cys Asp Cys Phe Trp Phe Arg		
1	5	10
		15

Thr Met Leu Asp Gln His Ala Ser Cys Met Glu Val Gly Thr Glu Arg  
                   20                 25                 30  
 Glu Arg Gln Ala Gly Gly Leu Val Met Phe Asp Pro Ser Gly Phe Pro  
                   35                 40                 45  
 Thr Gly Glu Lys Val Leu Gln Asp Asp Glu Phe Thr Cys Asp Leu Phe  
                   50                 55                 60  
 Arg Phe Leu Gln Leu Leu Cys Glu Gly His Asn Ser Gly Leu Xaa Val  
                   65                 70                 75                 80  
 Pro Gly Thr Ser Asp Asp Thr Lys Ala Xaa Ile Met Phe Ser Ser Gln  
                   85                 90                 95  
 Xaa Xaa Gln Glu Pro Val Ser Ser Asn Tyr Ala Ser Phe Xaa Arg Gln  
                   100             105                 110  
 Gln Ile Ile Leu Glu His Gly Ser Ala Leu Gly Ser Gly  
                   115             120                 125

<210> 1157  
 <211> 91  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(91)  
 <223> X = any amino acid or stop code

<400> 1157  
 Glu Ile Thr His Ile Val Gly Glu Thr Ala Ala Phe Leu Cys Pro Arg  
   1                 5                 10                 15  
 Leu Arg Leu Arg Arg Gly Gly Lys Asp Gly Ser Pro Lys Pro Gly Phe  
   20                 25                 30  
 Leu Ala Ser Val Ile Pro Val Asp Arg Arg Pro Gly Glu Xaa Asp Ile  
   35                 40                 45  
 Thr His Ile Val Gly Glu Thr Ala Ala Phe Leu Cys Pro Arg Leu Arg  
   50                 55                 60  
 Leu Arg Arg Gly Gly Lys Asp Gly Ser Pro Lys Pro Gly Phe Leu Ala  
   65                 70                 75                 80  
 Ser Val Ile Pro Val Asp Arg Arg Pro Gly Glu  
   85                 90                 91

<210> 1158  
 <211> 254  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(254)  
 <223> X = any amino acid or stop code

<400> 1158  
 Ser Lys Phe Ile Phe Tyr Val Asp Ser Gln Ser Met Ile Phe Phe Phe  
   1                 5                 10                 15  
 Gln Thr Pro Thr Arg His Lys Val Leu Ile Met Glu Phe Cys Pro Cys  
   20                 25                 30

Gly Ser Ieu Tyr Thr Val Leu Glu Glu Pro Ser Asn Ala Tyr Gly Leu  
   35                   40                   45  
 Pro Glu Ser Glu Phe Leu Ile Val Leu Arg Asp Val Val Gly Gly Met  
   50                   55                   60  
 Asn His Leu Arg Glu Asn Gly Ile Val His Arg Asp Ile Lys Pro Gly  
   65                   70                   75                   80  
 Asn Ile Met Arg Val Ile Gly Glu Asp Gly Gln Ser Val Tyr Lys Leu  
   85                   90                   95  
 Thr Asp Phe Gly Ala Ala Arg Glu Leu Glu Asp Asp Glu Gln Phe Val  
  100                  105                  110  
 Ser Leu Tyr Gly Thr Glu Glu Tyr Leu His Pro Asp Met Tyr Glu Arg  
  115                  120                  125  
 Ala Val Leu Arg Lys Asp His Gln Lys Lys Tyr Gly Ala Thr Val Asp  
  130                  135                  140  
 Leu Trp Ser Ile Gly Val Thr Phe Tyr Gln Gly Lys Pro Thr Gly Ser  
  145                  150                  155                  160  
 Leu Ala Ile Xaa His Pro Phe Gly Ala Ser Val Arg Asn Lys Ala  
  165                  170                  175  
 Ser Asp Gly Ile Lys Ile Ile Thr Gly Lys Gly Leu Leu Gly Ala Ile  
  180                  185                  190  
 Ser Gly Val Gln Lys Ser Lys Asn Gly Pro Ile Asp Trp Glu Trp  
  195                  200                  205  
 Glu Asp Met Pro Val Ser Cys Ser Pro Ser Gly Val Leu Arg Val  
  210                  215                  220  
 Pro Asn Leu Pro Pro Val Leu Ala Asn Ile Leu Glu Ser Arg Ser Arg  
  225                  230                  235                  240  
 Lys Lys Cys Trp Gly Phe Xaa Pro Ser Phe Leu Gln Glu Asn  
  245                  250                  254

<210> 1159  
<211> 162  
<212>Amino acid  
<213> Homo sapiens

<400> 1159  
 Gly Ser Thr Ile Ser Cys Glu Arg Ser Leu Arg Ser Leu Trp Thr Ala  
   1                   5                   10                   15  
 His Trp Ala Leu Pro Glu Met Asp Ser Arg Ile Pro Tyr Asp Asp Tyr  
   20                  25                  30  
 Pro Val Val Phe Leu Pro Ala Tyr Glu Asn Pro Pro Ala Trp Ile Pro  
   35                  40                  45  
 Pro His Glu Arg Val His His Pro Asp Tyr Asn Asn Glu Leu Thr Gln  
   50                  55                  60  
 Phe Leu Pro Arg Thr Ile Thr Leu Lys Lys Pro Pro Gly Ala Gln Leu  
   65                  70                  75                  80  
 Gly Phe Asn Ile Arg Gly Gly Lys Ala Ser Gln Leu Gly Ile Phe Ile  
   85                  90                  95  
 Ser Lys Val Ile Pro Asp Ser Asp Ala His Arg Ala Gly Leu Gln Glu  
  100                 105                 110  
 Gly Asp Gln Val Leu Ala Val Asn Asp Val Asp Phe Gln Asp Ile Glu  
  115                 120                 125  
 His Ser Lys Ala Val Glu Ile Leu Lys Thr Ala Arg Glu Ile Ser Met  
  130                 135                 140  
 Arg Val Arg Phe Phe Pro Tyr Asn Tyr His Arg Gln Lys Glu Arg Thr  
  145                 150                 155                 160  
 Val His  
  162

<210> 1160  
<211> 295  
<212>Amino acid  
<213> Homo sapiens

<400> 1160  
His Glu Gln Val Ser Ala Leu His Arg Arg Ile Lys Ala Ile Val Glu  
1 5 10 15  
Val Ala Ala Met Cys Gly Val Asn Ile Ile Cys Phe Gln Glu Ala Trp  
20 25 30  
Thr Met Pro Phe Ala Phe Cys Thr Arg Glu Lys Leu Pro Trp Thr Glu  
35 40 45  
Phe Ala Glu Ser Ala Glu Asp Gly Pro Thr Thr Arg Phe Cys Gln Lys  
50 55 60  
Leu Ala Lys Asn His Asp Met Val Val Val Ser Pro Ile Leu Glu Arg  
65 70 75 80  
Asp Ser Glu His Gly Asp Val Leu Trp Asn Thr Ala Val Val Ile Ser  
85 90 95  
Asn Ser Gly Ala Val Leu Gly Lys Thr Arg Lys Asn His Ile Pro Arg  
100 105 110  
Val Gly Asp Phe Asn Glu Ser Thr Tyr Met Glu Gly Asn Leu Gly  
115 120 125  
His Pro Val Phe Gln Thr Gln Phe Gly Arg Ile Ala Val Asn Ile Cys  
130 135 140  
Tyr Gly Arg His His Pro Leu Asn Trp Leu Met Tyr Ser Ile Asn Gly  
145 150 155 160  
Ala Glu Ile Ile Phe Asn Pro Ser Ala Thr Ile Gly Ala Leu Ser Glu  
165 170 175  
Ser Leu Trp Pro Ile Glu Ala Arg Asn Ala Ala Ile Ala Asn His Cys  
180 185 190  
Phe Thr Cys Ala Ile Asn Arg Val Gly Thr Glu His Phe Pro Asn Glu  
195 200 205  
Phe Thr Ser Gly Asp Gly Lys Ala His Gln Asp Phe Gly Tyr Phe  
210 215 220  
Tyr Gly Ser Ser Tyr Val Ala Ala Pro Asp Ser Ser Arg Thr Pro Gly  
225 230 235 240  
Leu Ser Arg Ser Arg Asp Gly Leu Leu Val Ala Lys Leu Asp Leu Asn  
245 250 255  
Leu Cys Gln Gln Val Asn Asp Val Trp Asn Phe Lys Met Thr Gly Arg  
260 265 270  
Tyr Glu Met Tyr Ala Arg Glu Leu Ala Glu Ala Val Lys Ser Asn Tyr  
275 280 285  
Ser Pro Thr Ile Val Lys Glu  
290 295

<210> 1161  
<211> 1621  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(1621)  
<223> X = any amino acid or stop code

<400> 1161

Met	Ala	Lys	Ser	Gly	Gly	Cys	Gly	Ala	Gly	Ala	Gly	Val	Gly	Gly	Gly
1				5				10					15		
Asn	Gly	Ala	Leu	Thr	Trp	Val	Asn	Asn	Ala	Ala	Lys	Lys	Glu	Glu	Ser
				20				25					30		
Glu	Thr	Ala	Asn	Lys	Asn	Asp	Ser	Ser	Lys	Lys	Leu	Ser	Val	Glu	Arg
				35				40					45		
Val	Tyr	Gln	Lys	Lys	Thr	Gln	Leu	Glu	His	Ile	Leu	Leu	Arg	Pro	Asp
					50			55				60			
Thr	Tyr	Ile	Gly	Ser	Val	Glu	Pro	Leu	Thr	Gln	Phe	Met	Trp	Val	Tyr
					65			70			75		80		
Asp	Glu	Asp	Val	Gly	Met	Asn	Cys	Arg	Glu	Val	Thr	Phe	Val	Pro	Gly
					85				90				95		
Leu	Tyr	Lys	Ile	Phe	Asp	Glu	Ile	Leu	Val	Asn	Ala	Ala	Asp	Asn	Lys
					100			105					110		
Gln	Arg	Asp	Lys	Asn	Met	Thr	Cys	Ile	Lys	Val	Ser	Ile	Asp	Pro	Glu
					115			120				125			
Ser	Asn	Ile	Ile	Ser	Ile	Trp	Asn	Asn	Gly	Lys	Gly	Ile	Pro	Val	Val
					130			135			140				
Glu	His	Lys	Val	Glu	Lys	Val	Tyr	Val	Pro	Ala	Leu	Ile	Phe	Gly	Gln
					145			150			155				160
Leu	Leu	Thr	Ser	Ser	Asn	Tyr	Asp	Asp	Asp	Glu	Lys	Lys	Val	Thr	Gly
					165			170					175		
Gly	Arg	Asn	Gly	Tyr	Gly	Ala	Lys	Leu	Cys	Asn	Ile	Phe	Ser	Thr	Lys
					180			185					190		
Phe	Thr	Val	Glu	Thr	Ala	Cys	Lys	Glu	Tyr	Lys	His	Ser	Phe	Lys	Gln
					195			200				205			
Thr	Trp	Met	Asn	Asn	Met	Met	Lys	Thr	Ser	Glu	Ala	Lys	Ile	Lys	His
					210			215			220				
Phe	Asp	Gly	Glu	Asp	Tyr	Thr	Cys	Ile	Thr	Phe	Gln	Pro	Asp	Leu	Ser
					225			230			235				240
Lys	Phe	Lys	Met	Glu	Lys	Leu	Asp	Lys	Asp	Ile	Val	Ala	Leu	Met	Thr
					245			250			255				
Arg	Arg	Ala	Tyr	Asp	Leu	Ala	Gly	Ser	Cys	Arg	Gly	Val	Lys	Val	Met
					260			265			270				
Phe	Asn	Gly	Lys	Lys	Leu	Pro	Val	Asn	Gly	Phe	Arg	Ser	Tyr	Val	Asp
					275			280			285				
Leu	Tyr	Val	Lys	Asp	Lys	Leu	Asp	Glu	Thr	Gly	Val	Ala	Leu	Lys	Val
					290			295			300				
Ile	His	Glu	Leu	Ala	Asn	Glu	Arg	Trp	Asp	Val	Cys	Leu	Thr	Leu	Ser
					305			310			315				320
Glu	Lys	Gly	Phe	Gln	Gln	Ile	Ser	Phi	Val	Asn	Ser	Ile	Ala	Thr	Thr
					325			330			335				
Lys	Gly	Gly	Arg	His	Val	Asp	Tyr	Val	Val	Asp	Gln	Val	Val	Gly	Lys
					340			345			350				
Leu	Ile	Glu	Val	Val	Lys	Lys	Lys	Asn	Lys	Ala	Gly	Val	Ser	Val	Lys
					355			360			365				
Pro	Phe	Gln	Val	Lys	Asn	His	Ile	Trp	Val	Phe	Ile	Asn	Cys	Leu	Ile
					370			375			380				
Glu	Asn	Pro	Thr	Phe	Asp	Ser	Gln	Thr	Lys	Glu	Asn	Met	Thr	Leu	Gln
					385			390			395				400
Pro	Lys	Ser	Phe	Gly	Ser	Lys	Cys	Gln	Leu	Ser	Glu	Lys	Phe	Phe	Lys
					405			410			415				
Ala	Ala	Ser	Asn	Cys	Gly	Ile	Val	Glu	Ser	Ile	Leu	Asn	Trp	Val	Lys
					420			425			430				
Phe	Lys	Ala	Gln	Thr	Gln	Leu	Asn	Lys	Lys	Cys	Ser	Ser	Val	Lys	Tyr
					435			440			445				
Ser	Lys	Ile	Lys	Gly	Ile	Pro	Lys	Leu	Asp	Asp	Ala	Asn	Asp	Ala	Gly
					450			455			460				
Gly	Lys	His	Ser	Leu	Glu	Cys	Thr	Leu	Ile	Leu	Thr	Glu	Gly	Asp	Ser
					465			470			475				480
Ala	Lys	Ser	Leu	Ala	Val	Ser	Gly	Val	Ile	Gly	Arg	Asp	Arg		
					485			490			495				
Tyr	Gly	Val	Phe	Pro	Leu	Arg	Gly	Lys	Ile	Leu	Asn	Val	Arg	Glu	Ala

Ser His Lys Gln Ile Met Glu Asn Ala Glu Ile Asn Asn Ile Ile Lys	500	505	510
515	520	525	
Ile Val Gly Leu Gln Tyr Lys Lys Ser Tyr Asp Asp Ala Gln Ser Leu	530	535	540
Lys Thr Leu Arg Tyr Gly Lys Ile Met Ile Met Thr Asp Gln Asp Gln	545	550	555
Asp Gly Ser His Ile Lys Gly Leu Leu Ile Asn Phe Ile His His Asn	560		
565	570	575	
Trp Pro Ser Leu Leu Lys His Gly Phe Leu Glu Glu Phe Ile Thr Pro	580	585	590
Ile Val Lys Ala Ser Lys Asn Lys Gln Glu Leu Ser Phe Tyr Ser Ile	595	600	605
Pro Glu Phe Asp Glu Trp Lys His Ile Glu Asn Gln Lys Ala Trp	610	615	620
Lys Ile Lys Tyr Tyr Lys Gly Leu Gly Thr Ser Thr Ala Lys Glu Ala	625	630	635
Lys Glu Tyr Phe Ala Asp Met Glu Arg His Arg Ile Leu Phe Arg Tyr	640		
645	650	655	
Ala Gly Pro Glu Asp Asp Ala Ala Ile Thr Leu Ala Phe Ser Lys Lys	660	665	670
Lys Ile Asp Asp Arg Lys Glu Trp Leu Thr Asn Phe Met Glu Asp Arg	675	680	685
Arg Gln Arg Arg Leu His Gly Leu Pro Glu Gln Phe Leu Tyr Gly Thr	690	695	700
Ala Thr Lys His Leu Thr Tyr Asn Asp Phe Ile Asn Lys Glu Leu Ile	705	710	715
Leu Phe Ser Asn Ser Asp Asn Glu Arg Ser Ile Pro Ser Leu Val Asp	720		
725	730	735	
Gly Phe Lys Pro Gln Arg Lys Val Leu Phe Thr Cys Phe Lys Arg	740	745	750
Asn Asp Lys Arg Glu Val Lys Val Ala Gln Leu Ala Gly Ser Val Ala	755	760	765
Glu Met Ser Ala Tyr His His Gly Glu Gln Ala Leu Met Met Thr Ile	770	775	780
Val Asn Leu Ala Gln Asn Phe Val Gly Ser Asn Asn Ile Asn Leu Leu	785	790	795
Gln Pro Ile Gly Gln Phe Gly Thr Arg Leu His Gly Gly Lys Asp Ala	800		
805	810	815	
Ala Ser Pro Arg Tyr Ile Phe Thr Met Leu Ser Thr Leu Ala Arg Leu	820	825	830
Leu Phe Pro Ala Val Asp Asp Asn Leu Leu Lys Phe Leu Tyr Asp Asp	835	840	845
Asn Gln Arg Val Glu Pro Glu Trp Tyr Ile Pro Ile Ile Pro Met Val	850	855	860
Leu Ile Asn Gly Ala Glu Gly Ile Gly Thr Gly Trp Ala Cys Lys Leu	865	870	875
Pro Asn Tyr Asp Ala Arg Glu Ile Val Asn Asn Val Arg Arg Met Leu	885	890	895
Asp Gly Leu Asp Pro His Pro Met Leu Pro Asn Tyr Lys Asn Phe Lys	900	905	910
Gly Thr Ile Gln Glu Leu Gly Gln Asn Gln Tyr Ala Val Ser Gly Glu	915	920	925
Ile Phe Val Val Asp Arg Asn Thr Val Glu Ile Thr Glu Leu Pro Val	930	935	940
Arg Thr Trp Thr Gln Val Tyr Lys Glu Gln Val Leu Glu Pro Met Leu	945	950	955
Asn Gly Thr Asp Lys Thr Pro Ala Leu Ile Ser Asp Tyr Lys Glu Tyr	965	970	975
His Thr Asp Thr Thr Val Lys Phe Val Val Lys Met Thr Glu Glu Lys	980	985	990
Leu Ala Gln Ala Glu Ala Ala Gly Leu His Lys Val Phe Lys Leu Gln	995	1000	1005
Thr Thr Leu Thr Cys Asn Ser Met Val Leu Phe Asp His Met Gly Cys			

1010                    1015                    1020  
 Leu Lys Lys Tyr Glu Thr Val Gln Asp Ile Leu Lys Glu Phe Phe Asp  
 1025                    1030                    1035                    1040  
 Leu Arg Leu Ser Tyr Tyr Gly Leu Arg Lys Glu Trp Leu Val Gly Met  
 1045                    1050                    1055  
 Leu Gly Ala Glu Phe Thr Lys Leu Asn Asn Gln Ala Arg Phe Ile Leu  
 1060                    1065                    1070  
 Glu Lys Ile Gln Gly Lys Ile Thr Ile Xaa Asn Arg Ser Lys Lys Asp  
 1075                    1080                    1085  
 Leu Ile Gln Met Leu Val Gln Arg Gly Tyr Glu Ser Asp Pro Val Lys  
 1090                    1095                    1100  
 Ala Trp Lys Glu Ala Gln Glu Lys Ala Ala Glu Glu Asp Glu Thr Gln  
 1105                    1110                    1115                    1120  
 Asn Gln His Asp Asp Ser Ser Asp Ser Gly Thr Pro Ser Gly Pro  
 1125                    1130                    1135  
 Asp Phe Asn Tyr Ile Leu Asn Met Ser Leu Trp Ser Leu Thr Lys Glu  
 1140                    1145                    1150  
 Lys Val Glu Glu Leu Ile Lys Gln Arg Asp Ala Lys Gly Arg Glu Val  
 1155                    1160                    1165  
 Asn Asp Leu Lys Arg Lys Ser Pro Ser Asp Leu Trp Lys Glu Asp Leu  
 1170                    1175                    1180  
 Ala Ala Phe Val Glu Glu Leu Asp Lys Val Glu Ser Gln Glu Arg Glu  
 1185                    1190                    1195                    1200  
 Asp Val Leu Ala Gly Met Ser Gly Lys Ala Ile Lys Gly Lys Val Gly  
 1205                    1210                    1215  
 Lys Pro Lys Val Lys Lys Leu Gln Leu Glu Glu Thr Met Pro Ser Pro  
 1220                    1225                    1230  
 Tyr Gly Arg Arg Ile Ile Pro Glu Ile Thr Ala Met Lys Ala Asp Ala  
 1235                    1240                    1245  
 Ser Lys Lys Leu Leu Lys Lys Lys Gly Asp Leu Asp Thr Ala Ala  
 1250                    1255                    1260  
 Val Lys Val Glu Phe Asp Glu Glu Phe Ser Gly Ala Pro Val Glu Gly  
 1265                    1270                    1275                    1280  
 Ala Gly Glu Glu Ala Leu Thr Pro Ser Val Pro Ile Asn Lys Gly Pro  
 1285                    1290                    1295  
 Lys Pro Lys Arg Glu Lys Lys Glu Pro Gly Thr Arg Val Arg Lys Thr  
 1300                    1305                    1310  
 Pro Thr Ser Ser Gly Lys Pro Ser Ala Lys Lys Val Lys Lys Arg Asn  
 1315                    1320                    1325  
 Pro Trp Ser Asp Asp Glu Ser Lys Ser Glu Ser Asp Leu Glu Glu Thr  
 1330                    1335                    1340  
 Glu Pro Val Val Ile Pro Arg Asp Ser Leu Leu Arg Arg Ala Ala Ala  
 1345                    1350                    1355                    1360  
 Glu Arg Pro Lys Tyr Thr Phe Asp Phe Ser Glu Glu Glu Asp Asp Asp  
 1365                    1370                    1375  
 Ala Asp Asp Asp Asp Asp Asn Asn Asp Leu Glu Glu Leu Lys Val  
 1380                    1385                    1390  
 Lys Ala Ser Pro Ile Thr Asn Asp Gly Glu Asp Glu Phe Val Pro Ser  
 1395                    1400                    1405  
 Asp Gly Leu Asp Lys Asp Glu Tyr Thr Phe Ser Pro Gly Lys Ser Lys  
 1410                    1415                    1420  
 Ala Thr Pro Glu Lys Ser Leu His Asp Lys Ser Gln Asp Phe Ser Pro  
 1425                    1430                    1435                    1440  
 Asn Leu Phe Ser Phe Pro Ser Tyr Ser Gln Lys Ser Glu Asp Asp Ser  
 1445                    1450                    1455  
 Ala Lys Phe Asp Ser Asn Glu Glu Asp Ser Ala Ser Val Phe Ser Pro  
 1460                    1465                    1470  
 Ser Phe Gly Leu Lys Gln Thr Asp Lys Val Pro Ser Lys Thr Val Ala  
 1475                    1480                    1485  
 Ala Lys Lys Gly Lys Pro Ser Ser Asp Thr Val Pro Lys Pro Lys Arg  
 1490                    1495                    1500  
 Ala Pro Lys Gln Lys Lys Val Val Glu Ala Val Asn Ser Asp Ser Asp  
 1505                    1510                    1515                    1520  
 Ser Glu Phe Gly Lys Ile Pro Lys Lys Thr Thr Pro Lys Gly Lys Gly

Arg Gly Ala Lys Lys Arg Lys Ala Ser Gly Ser Glu Asn Glu Gly Asp	1530	1535
1540	1545	1550
Tyr Asn Pro Gly Arg Lys Thr Ser Lys Thr Thr Ser Lys Lys Pro Lys		
1555	1560	1565
Lys Thr Ser Phe Asp Asp Ser Asp Val Asp Ile Phe Pro Ser Asp		
1570	1575	1580
Phe Pro Thr Glu Pro Pro Ser Leu Pro Arg Thr Gly Arg Ala Arg Lys		
1585	1590	1595
Glu Val Lys Tyr Phe Ala Glu Ser Asp Glu Glu Asp Asp Val Asp		
1605	1610	1615
Phe Ala Met Phe Asn		
16201621		

<210> 1162  
<211> 73  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(73)  
<223> X = any amino acid or stop code

Lys Gly Cys Leu Ala Ala Ser Phe Asn Cys Ile Phe Leu Tyr Thr Gly			
1	5	10	15
Glu Leu Tyr Pro Thr Met Ile Arg Xaa Val Glu Ala Xaa Trp Glu Asn			
20	25	30	
Asp Ser Leu Phe Leu Gly Lys Asp Ile Leu Leu Cys Thr Gly Gln Thr			
35	40	45	
Pro Glu Leu Asn Gln Val His Pro Ser Pro Lys Ala Pro Pro Asn Thr			
50	55	60	
His His Cys Lys Ala His Ser Ser His			
65	70	73	

<210> 1163  
<211> 336  
<212>Amino acid  
<213> Homo sapiens

<400> 1163			
Glu Asn Ser Phe Glu Cys Lys Asp Cys Gly Lys Ala Phe Ser Arg Gly			
1	5	10	15
Tyr Gln Leu Ser His His Gln Lys Ile His Thr Gly Glu Lys Pro Tyr			
20	25	30	
Glu Cys Lys Glu Cys Lys Lys Ala Phe Arg Trp Gly Asn Gln Leu Thr			
35	40	45	
Gln His Gln Lys Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Asp			
50	55	60	
Cys Gly Lys Ala Phe Arg Trp Gly Ser Ser Leu Val Ile His Lys Arg			
65	70	75	80
Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Lys Asp Cys Gly Lys Ala			
85	90	95	

Phe Arg Arg Gly Asp Glu Leu Thr Gln His Gln Arg Phe His Thr Gly  
 100 105 110  
 Glu Lys Asp Tyr Glu Cys Lys Asp Cys Gly Lys Thr Phe Ser Arg Val  
 115 120 125  
 Tyr Lys Leu Ile Gln His Lys Arg Ile His Ser Gly Glu Lys Pro Tyr  
 130 135 140  
 Glu Cys Lys Asp Cys Gly Lys Ala Phe Ile Cys Gly Ser Ser Leu Ile  
 145 150 155 160  
 Gln His Lys Arg Ile His Thr Gly Glu Lys Pro Tyr Glu Cys Gln Glu  
 165 170 175  
 Cys Gly Lys Ala Phe Thr Arg Val Asn Tyr Leu Thr Gln His Gln Lys  
 180 185 190  
 Ile His Thr Gly Glu Lys Pro His Glu Cys Lys Glu Cys Gly Lys Ala  
 195 200 205  
 Phe Arg Trp Gly Ser Ser Leu Val Lys His Glu Arg Ile His Thr Gly  
 210 215 220  
 Glu Lys Pro Tyr Lys Cys Thr Glu Cys Gly Lys Ala Phe Asn Cys Gly  
 225 230 235 240  
 Tyr His Leu Thr Gln His Glu Arg Ile His Thr Gly Glu Thr Pro Tyr  
 245 250 255  
 Lys Cys Lys Glu Cys Gly Lys Ala Phe Ile Tyr Gly Ser Ser Leu Val  
 260 265 270  
 Lys His Glu Arg Ile His Thr Gly Val Lys Pro Tyr Gly Cys Thr Glu  
 275 280 285  
 Cys Gly Lys Ser Phe Ser His Gly His Gln Leu Thr Gln His Gln Lys  
 290 295 300  
 Thr His Ser Gly Ala Lys Ser Tyr Glu Cys Lys Glu Cys Gly Lys Ala  
 305 310 315 320  
 Cys Asn His Leu Asn His Leu Arg Glu His Gln Arg Ile His Asn Ser  
 325 330 335 336

<210> 1164  
<211> 118  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(118)  
<223> X = any amino acid or stop code

<400> 1164  
His Gln Tyr Leu Asp Asp Leu Tyr Pro Leu His Val Met Thr Ile Leu  
 1 5 10 15  
Leu Lys Ser His Phe Phe Thr Met Leu Lys Arg Pro Val Gly Ser Ser  
 20 25 30  
Ser Phe Ala Ser Leu Pro Phe Tyr His Gln Ser Ile Leu Leu Arg Lys  
 35 40 45  
Asn Gln Met Lys Arg Lys Lys Thr Gln Gln Asp Leu Thr His Ile Asn  
 50 55 60  
Trp Thr Leu Gln Ala Val Ser Ile Gln Thr Cys Ile Trp Leu Gln Lys  
 65 70 75 80  
Lys Pro Ser Ser Tyr Phe His Gln Leu Pro Asn Gln Val Leu Xaa Pro  
 85 90 95  
Glu Asn Ser Gly Pro Glu Ser Cys Leu Tyr Asp Leu Ala Ala Val Val  
 100 105 110  
Val His His Gly Ser Gly

115

118

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<210> 1165
<211> 146
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(146)
<223> X = any amino acid or stop code

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<400> 1165
Xaa Leu Asp Pro Asp Thr Leu Pro Ala Val Ala Thr Leu Leu Met Asp
 1           5          10          15
Val Met Phe Tyr Ser Asn Gly Val Lys Asp Pro Met Ala Thr Gly Asp
 20          25          30
Asp Cys Gly His Ile Arg Phe Phe Ser Ser Leu Ile Glu Gly Tyr
 35          40          45
Ile Ser Leu Val Met Asp Val Gln Thr Gln Gln Arg Phe Pro Ser Asn
 50          55          60
Leu Leu Phe Thr Ser Ala Ser Gly Glu Leu Trp Lys Met Val Arg Ile
 65          70          75          80
Gly Gly Gln Pro Leu Gly Phe Gly Pro Val Trp Glu Ser Gly Pro Thr
 85          90          95
Gly Pro Thr Ser Pro Leu Ile Leu Pro Val Thr Pro Ser Ser Ser His
100          105          110
Arg Gln Ala Ala Ser Gln Val Thr Thr Thr Lys Gln Gly Gln Trp Leu
115          120          125
Cys Leu Lys Arg Pro Ser Ala Arg Ser Pro Asp His Thr Ala Cys Leu
130          135          140
Gly *          145

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<210> 1166
<211> 84
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(84)
<223> X = any amino acid or stop code

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<400> 1166
Glu Ala Pro Leu Thr Ser Val Cys Phe Ser Leu Glu Arg Arg Phe Gly
 1           5          10          15
Ser Ser Ser Asn Thr Thr Ser Phe Gly Thr Leu Ala Ser Gln Asn Ala
 20          25          30
Pro Thr Phe Gly Ser Leu Ser Gln Gln Thr Ser Gly Phe Gly Thr Gln
 35          40          45
Ser Ser Gly Phe Ser Gly Phe Gly Ser Gly Thr Gly Gly Phe Ser Phe
 50          55          60
Gly Ser Asn Asn Ser Xaa Val Ser Pro Phe Leu Ser Leu Thr Leu Ile

```

65

70

75

80

Lys Ser Ile Lys  
84

<210> 1167  
<211> 112  
<212>Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> (1)...(112)  
<223> X = any amino acid or stop code

<400> 1167  
 Glu Glu Pro Gln Gly Ser Pro Ile Trp Val Trp Leu Ala Gly Ser Leu  
 1               5                   10                   15  
 Thr Ser Val Ser Cys Phe Leu Pro Phe Gln Arg Met Arg Ile Lys Pro  
 20              25                  30  
 His Gln Gly Gln Tyr Ile Gly Glu Met Ser Phe Leu Gln His His Lys  
 35              40                  45  
 Gly Glu Cys Arg Pro Gln Lys Asp Xaa Ala Arg Gln Glu Asn Pro Cys  
 50              55                  60  
 Gly Pro Cys Ser Glu Arg Arg Lys His Leu Leu Gly Gln Asp Pro Lys  
 65              70                  75                  80  
 Thr Cys Lys Cys Ser Cys Lys Asn Thr Asp Ser Arg Cys Lys Ala Arg  
 85              90                  95  
 Pro Leu Glu Leu Asn Glu Arg Thr Cys Arg Cys Asp Lys Pro Arg Arg  
 100             105                110                112

<210> 1168  
<211> 319  
<212>Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> (1)...(319)  
<223> X = any amino acid or stop code

<400> 1168  
 Thr Leu Trp Ala Gly Pro Gly Leu Cys Pro Gln Ser His Ser Ser Ser  
 1               5                   10                   15  
 Ser Val Pro Ala Pro Trp Glu Pro His Val Glu Arg Ala Leu Arg Thr  
 20              25                  30  
 Asp Arg Asn Gln Gly Gln Arg Pro Leu Leu Ser Ala Ser Trp Ala Pro  
 35              40                  45  
 Ala Pro Ala Arg Pro Leu Phe Leu Thr Ser Pro Val Leu Leu Pro Lys  
 50              55                  60  
 Ser Arg Ala Ile Pro Ala Ala Arg Asp Pro Ser Xaa Ala Gly Ile Phe  
 65              70                  75                  80  
 Cys Leu Leu Glu Met Ala Gly Gly Gln Ala Ser Val Val Ile Ile Gly

Ser Ala Gly Val Leu Gly Cys Arg Trp Gly Ser Ser Gly Lys Ser His	90	95
100	105	110
Ser Leu Ser Pro Ser Arg Lys Gly Asn Leu His Leu Leu Ser Gln Glu	115	120
	125	
Pro Gln Thr Thr Val Val His Asn Ala Thr Asp Gly Ile Lys Gly Ser	130	135
	140	
Thr Glu Ser Cys Asn Thr Thr Glu Asp Glu Asp Leu Lys Val Arg	145	150
	155	160
Lys Gln Glu Ile Ile Lys Ile Thr Glu Gln Leu Ile Glu Ala Ile Asn	165	170
	175	
Asn Gly Asp Phe Glu Ala Tyr Thr Lys Ile Cys Asp Pro Gly Leu Thr	180	185
	190	
Ser Phe Glu Pro Glu Ala Leu Gly Asn Leu Val Glu Gly Met Asp Phe	195	200
	205	
His Lys Phe Tyr Phe Glu Asn Arg Glu Trp Val Arg Ala Ala Asp Ile	210	215
	220	
Leu Leu Pro Ala Pro Leu Pro Leu Cys Leu Cys Leu Leu Thr Phe	225	230
	235	240
Ser Ser Gln Leu Pro Thr Phe Pro Leu Phe Asp Leu Arg Ala Ala Leu	245	250
	255	
Leu Leu Cys Met Leu Val Pro Leu Cys Pro Asp Gly Cys Arg Gln Ala	260	265
	270	
Pro Leu Lys Ala Leu Leu Leu Ser Ser Lys Cys His Ser Phe Cys Ser	275	280
	285	
Cys Phe Val Ala Val Pro Val Thr Thr Ile Lys Leu Thr Tyr Phe Leu	290	295
	300	
Pro Gly Ala Val Ala Tyr Ala Cys Asn Pro Asn Thr Leu Gly Gly	305	310
	315	319

<210> 1169  
 <211> 96  
 <212>Amino acid  
 <213> Homo sapiens

Glu Arg Ala Gly Ala Gly Gly Ala Ala Ala Cys Arg Ala Gly Thr Arg	<400> 1169		
1	5	10	15
Ser Gly Ala Thr Ser Arg Thr Pro Trp Pro Leu His Arg Gln Leu Ser			
20	25	30	
Met Met Leu Met Leu Ala Gln Ser Asn Pro Gln Leu Phe Ala Leu Met			
35	40	45	
Gly Thr Arg Ala Gly Ile Ala Arg Glu Leu Glu Arg Val Glu Gln Gln			
50	55	60	
Ser Arg Leu Glu Gln Leu Ser Ala Ala Glu Leu Gln Ser Arg Asn Gln			
65	70	75	80
Gly His Trp Ala Asp Trp Leu Gln Ala Tyr Arg Ala Arg Leu Gly Gln			
85	90	95	96

<210> 1170  
 <211> 145  
 <212>Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature

<222> (1) . . . (145)  
 <223> X = any amino acid or stop code

<400> 1170  
 Asn Gly Thr Leu Phe Ile Met Val Met His Ile Lys Asp Leu Val Ser  
 1 5 10 15  
 Asp Tyr Lys Glu Xaa Trp Leu Xaa Arg Lys Pro Leu Pro Trp Xaa Glu  
 20 25 30  
 Ala Leu Leu Leu Arg Asp Cys Phe Phe Phe Xaa Val Thr Glu Asn Gly  
 35 40 45  
 Ala Asp Pro Asn Pro Tyr Val Lys Thr Tyr Leu Leu Pro Asp Asn His  
 50 55 60  
 Lys Thr Ser Lys Arg Lys Thr Lys Ile Ser Arg Lys Thr Arg Asn Pro  
 65 70 75 80  
 Thr Phe Asn Glu Met Leu Val Tyr Ser Gly Tyr Ser Lys Glu Thr Leu  
 85 90 95  
 Arg Gln Arg Glu Leu Gln Leu Ser Val Leu Ser Ala Glu Ser Leu Arg  
 100 105 110  
 Glu Asn Phe Phe Leu Gly Gly Val Thr Leu Pro Leu Lys Asp Phe Asn  
 115 120 125  
 Leu Ser Lys Glu Thr Val Lys Trp Tyr Glu Leu Thr Ala Ala Thr Tyr  
 130 135 140  
 Leu  
 145

<210> 1171  
 <211> 464  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1171  
 Leu His Arg Ile Met Gln Leu Ala Val Val Val Ser Gln Val Leu Glu  
 1 5 10 15  
 Asn Gly Ser Ser Val Leu Val Cys Leu Glu Glu Gly Trp Asp Ile Thr  
 20 25 30  
 Ala Gln Val Thr Ser Leu Val Gln Leu Leu Ser Asp Pro Phe Tyr Arg  
 35 40 45  
 Thr Leu Glu Gly Phe Gln Met Leu Val Glu Lys Glu Trp Leu Ser Phe  
 50 55 60  
 Gly His Lys Phe Ser Gln Arg Ser Ser Leu Thr Leu Asn Cys Gln Gly  
 65 70 75 80  
 Ser Gly Phe Ala Pro Val Phe Leu Gln Phe Leu Asp Cys Val His Gln  
 85 90 95  
 Val His Asn Gln Tyr Pro Thr Glu Phe Glu Phe Asn Leu Tyr Tyr Leu  
 100 105 110  
 Lys Phe Leu Ala Phe His Tyr Val Ser Asn Arg Phe Lys Thr Phe Leu  
 115 120 125  
 Leu Asp Ser Asp Tyr Glu Arg Leu Glu His Gly Thr Leu Phe Asp Asp  
 130 135 140  
 Lys Gly Glu Lys His Ala Lys Lys Gly Val Cys Ile Trp Glu Cys Ile  
 145 150 155 160  
 Asp Arg Met His Lys Arg Ser Pro Ile Phe Phe Asn Tyr Leu Tyr Ser  
 165 170 175  
 Pro Leu Glu Ile Glu Ala Leu Lys Pro Asn Val Asn Val Ser Ser Leu  
 180 185 190

Lys Lys Trp Asp Tyr Tyr Ile Glu Glu Thr Leu Ser Thr Gly Pro Ser			
195	200	205	
Tyr Asp Trp Met Met Leu Thr Pro Lys His Phe Pro Ser Glu Asp Ser			
210	215	220	
Asp Leu Ala Gly Glu Ala Gly Pro Arg Ser Gln Arg Arg Thr Val Trp			
225	230	235	240
Pro Cys Tyr Asp Asp Val Ser Cys Thr Gln Pro Asp Ala Leu Thr Ser			
245	250	255	
Leu Phe Ser Glu Ile Glu Lys Leu Glu His Lys Leu Asn Gln Ala Pro			
260	265	270	
Glu Lys Trp Gln Gln Leu Trp Glu Arg Val Thr Val Asp Leu Lys Glu			
275	280	285	
Glu Pro Arg Thr Asp Arg Ser Gln Arg His Leu Ser Arg Ser Pro Gly			
290	295	300	
Ile Val Ser Thr Asn Leu Pro Ser Tyr Gln Lys Arg Ser Leu Leu His			
305	310	315	320
Leu Pro Asp Ser Ser Met Gly Glu Glu Gln Asn Ser Ser Ile Ser Pro			
325	330	335	
Ser Asn Gly Val Glu Arg Arg Ala Ala Thr Leu Tyr Ser Gln Tyr Thr			
340	345	350	
Ser Lys Asn Asp Glu Asn Arg Ser Phe Glu Gly Thr Leu Tyr Lys Arg			
355	360	365	
Gly Ala Leu Leu Lys Gly Trp Lys Pro Arg Trp Phe Val Leu Asp Val			
370	375	380	
Thr Lys His Gln Leu Arg Tyr Tyr Asp Ser Gly Glu Asp Thr Ser Cys			
385	390	395	400
Lys Gly His Ile Asp Leu Ala Glu Val Glu Met Val Ile Pro Ala Gly			
405	410	415	
Pro Ser Met Gly Ala Pro Lys His Thr Ser Asp Lys Ala Phe Phe Asp			
420	425	430	
Leu Lys Thr Ser Lys Arg Val Tyr Asn Phe Cys Ala Gln Asp Gly Gln			
435	440	445	
Ser Ala Gln Gln Trp Met Asp Lys Ile Gln Ser Cys Ile Ser Asp Ala			
450	455	460	464

&lt;210&gt; 1172

&lt;211&gt; 256

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1172

Glu Val Glu Gly Pro Arg Arg Val Ser Pro Ala Pro Glu Thr Leu Gly			
1	5	10	15
Met Glu Glu Ser Val Val Arg Pro Ser Val Phe Val Val Asp Gly Gln			
20	25	30	
Thr Asp Ile Pro Phe Thr Arg Leu Gly Arg Ser His Arg Arg Gln Ser			
35	40	45	
Cys Ser Val Ala Arg Val Gly Leu Gly Leu Leu Leu Leu Met Gly			
50	55	60	
Ala Gly Leu Ala Val Gln Gly Trp Phe Leu Leu Gln Leu His Trp Arg			
65	70	75	80
Leu Gly Glu Met Val Thr Arg Leu Pro Asp Gly Pro Ala Gly Ser Trp			
85	90	95	
Glu Gln Leu Ile Gln Glu Arg Arg Ser His Glu Val Asn Pro Ala Ala			
100	105	110	
His Leu Thr Gly Ala Asn Ser Ser Leu Thr Gly Ser Gly Gly Pro Leu			
115	120	125	

Leu	Trp	Glu	Thr	Gln	Leu	Gly	Leu	Ala	Phe	Leu	Arg	Gly	Leu	Ser	Tyr
130				135						140					
His	Asp	Gly	Ala	Leu	Val	Val	Thr	Lys	Ala	Gly	Tyr	Tyr	Tyr	Ile	Tyr
145				150				155			155			160	
Ser	Lys	Val	Gln	Leu	Gly	Gly	Val	Gly	Cys	Pro	Leu	Gly	Leu	Ala	Ser
				165				170			170			175	
Thr	Ile	Thr	His	Gly	Leu	Tyr	Lys	Arg	Thr	Pro	Arg	Tyr	Pro	Glu	Glu
	180				185			185			190				
Leu	Glu	Leu	Leu	Val	Ser	Gln	Gln	Ser	Pro	Cys	Gly	Arg	Ala	Thr	Ser
	195				200			200			205				
Ser	Ser	Arg	Val	Trp	Trp	Asp	Ser	Ser	Phe	Leu	Gly	Gly	Val	Val	His
	210				215			215			220				
Leu	Glu	Ala	Gly	Glu	Glu	Val	Val	Val	Arg	Val	Leu	Asp	Glu	Arg	Leu
225					230			230			235			240	
Val	Arg	Leu	Arg	Asp	Gly	Thr	Arg	Ser	Tyr	Phe	Gly	Ala	Phe	Met	Val
	245							245			250			255	256

<210> 1173  
 <211> 117  
 <212>Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(17)  
 <223> X = any amino acid or stop code

<400> 1173															
Gln	Ser	Ala	Glu	Leu	Gly	Pro	Arg	Arg	Glu	Gly	Ser	Arg	Arg	Pro	
1				5				10				15			
Ser	Cys	Thr	Lys	Ala	Ser	Lys	Pro	Trp	Arg	Arg	Arg	Pro	Gly	Gly	Pro
	20				25			25				30			
Thr	Ser	Gly	Leu	Gly	Xaa	Gly	Pro	Leu	Ser	Pro	Gly	Pro	Tyr	Gln	Cys
	35					40						45			
Arg	Pro	Ser	Leu	Pro	Ala	Gln	Leu	Tyr	Pro	Gln	Ser	Leu	Met	Ala	Ala
	50				55			55			60				
Ala	Thr	Leu	Arg	Thr	Pro	Thr	Gln	Val	Ser	Ala	Ala	Ser	Ser	Arg	Pro
	65				70			70			75			80	
His	Thr	Pro	Ser	Pro	Thr	His	Val	Leu	Lys	Pro	Ser	Val	Arg	Gly	Ala
						85			90			95			
Cys	Ser	Ser	Pro	Arg	Cys	Pro	Gly	Ser	Gly	Thr	Leu	Arg	Arg	Ser	Trp
	100					105			105			110			
Val	Gly	Pro	Phe												
	115		117												

<210> 1174  
 <211> 370  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1174															
Leu	Trp	Trp	Pro	Pro	Leu	Ser	Arg	His	Ala	Ala	His	Arg	Gln	Trp	Pro

1	5	10	15
Gly Pro Thr Ala Pro Arg Gly Leu Gly His Lys Val Lys Gly Arg Gly			
20	25	30	
Ala Ser Pro Ala Ala Met Trp Ser Cys Ser Trp Phe Asn Gly Thr Gly			
35	40	45	
Leu Val Glu Glu Leu Pro Ala Cys Gln Asp Leu Gln Leu Gly Leu Ser			
50	55	60	
Leu Leu Ser Leu Leu Gly Leu Val Val Gly Val Pro Val Gly Leu Cys			
65	70	75	80
Tyr Asn Ala Leu Leu Val Leu Ala Asn Leu His Ser Lys Ala Ser Met			
85	90	95	
Thr Met Pro Asp Val Tyr Phe Val Asn Met Ala Val Ala Gly Leu Val			
100	105	110	
Leu Ser Ala Leu Ala Pro Val His Leu Leu Gly Pro Pro Ser Ser Arg			
115	120	125	
Trp Ala Leu Trp Ser Val Gly Gly Glu Val His Val Ala Leu Gln Ile			
130	135	140	
Pro Phe Asn Val Ser Ser Leu Val Ala Met Tyr Ser Thr Ala Leu Leu			
145	150	155	160
Ser Leu Asp His Tyr Ile Glu Arg Ala Leu Pro Arg Thr Tyr Met Ala			
165	170	175	
Ser Val Tyr Asn Thr Arg His Val Cys Gly Phe Val Trp Gly Gly Ala			
180	185	190	
Leu Leu Thr Ser Phe Ser Ser Leu Leu Phe Tyr Ile Cys Ser His Val			
195	200	205	
Ser Thr Arg Ala Leu Glu Cys Ala Lys Met Gln Asn Ala Glu Ala Ala			
210	215	220	
Asp Ala Thr Leu Val Phe Ile Gly Tyr Val Val Pro Ala Leu Ala Thr			
225	230	235	240
Leu Tyr Ala Leu Val Leu Leu Ser Arg Val Arg Arg Glu Asp Thr Pro			
245	250	255	
Leu Asp Arg Asp Thr Gly Arg Leu Glu Pro Ser Ala His Arg Leu Leu			
260	265	270	
Val Ala Thr Val Cys Thr Gln Phe Gly Leu Trp Thr Pro His Tyr Leu			
275	280	285	
Ile Leu Leu Gly His Thr Val Ile Ile Ser Arg Gly Lys Pro Val Asp			
290	295	300	
Ala His Tyr Leu Gly Leu Leu His Phe Val Lys Asp Phe Ser Lys Leu			
305	310	315	320
Leu Ala Phe Ser Ser Ser Phe Val Thr Pro Leu Leu Tyr Arg Tyr Met			
325	330	335	
Asn Gln Ser Phe Pro Ser Lys Leu Gln Arg Leu Met Lys Lys Leu Pro			
340	345	350	
Cys Gly Asp Arg His Cys Ser Pro Asp His Met Gly Val Gln Gln Val			
355	360	365	
Leu Ala			
370			

&lt;210&gt; 1175

&lt;211&gt; 145

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

<400> 1175			
Ser Glu Ser Glu Leu Phe Thr Leu Met Pro Ser Leu Pro Thr Thr Asn			
1	5	10	15
Cys Val His Ser Leu Gln Met Ile Pro Pro Leu Ser Pro Ala Pro Asn			
20	25	30	
Gln Glu Leu Val Leu Gly Leu Cys Tyr Met Ser Tyr Leu Ala Phe Leu			

35	40	45
Tyr Met Thr Phe Asp Phe Cys Cys Leu Tyr Phe Ser Thr Val Tyr Ala		
50	55	60
Pro Ser Phe Lys Tyr Ile Cys Val His Thr Asp Thr His Ile Cys Val		
65	70	75
Cys Val Cys Ile Tyr Leu Ser Ser Val Val Ser Lys Ser Ser Ala Glu		80
85	90	95
Ala Asp Gly Val Leu Gln Pro Arg Arg His Pro Ala Ser Leu Leu Ile		
100	105	110
Val Phe Ala Thr Ser Ile Ser Glu Ser Ser Leu Leu Ile Phe Ser Phe		
115	120	125
Gln Lys Thr Glu Ala Lys Leu Ile Val Phe Ala Val Ser Leu Ala Ala		
130	135	140
Lys		
145		

<210> 1176  
<211> 50  
<212>Amino acid  
<213> Homo sapiens

<400> 1176		
Phe	Phe	Leu Arg Gln Ser Leu Thr Leu Ser Pro Arg Leu Glu Cys
1	5	10 15
Ser	Gly Ala Thr Ser Ala Ser Pro Ser Ala Gly Ile Thr Gly Met Ser	
20	25	30
His	His Ser Gln Pro Ile Val Asn Phe Leu Arg Ala Cys Ile Pro Ile	
35	40	45
Ser	Lys	
50		

<210> 1177  
<211> 231  
<212>Amino acid  
<213> Homo sapiens

<400> 1177		
Arg	Gln His Ala Glu Glu Arg Gly Arg Arg Asn Pro Lys Thr Gly Leu	
1	5	10 15
Thr	Leu Glu Arg Val Gly Pro Glu Ser Ser Pro Tyr Leu Leu Arg Arg	
20	25	30
His	Gln Arg Gln Gly Gln Glu Gly Glu His Tyr His Ser Cys Val Gln	
35	40	45
Leu	Ala Pro Thr Arg Gly Leu Glu Glu Ser Gly His Gly Pro Leu Ser	
50	55	60
Leu	Ala Gly Gly Pro Arg Val Gly Gly Val Ala Ala Ala Ala Thr Glu	
65	70	75 80
Ala	Pro Arg Met Glu Trp Lys Val Lys Val Arg Ser Asp Gly Thr Arg	
85	90	95
Tyr	Val Ala Lys Arg Pro Val Arg Asp Arg Leu Leu Lys Ala Arg Ala	
100	105	110
Leu	Lys Ile Arg Glu Glu Arg Ser Gly Met Thr Thr Asp Asp Asp Ala	
115	120	125
Val	Ser Glu Met Lys Met Gly Arg Tyr Trp Ser Lys Glu Glu Arg Lys	

130	135	140
Gln His Leu Ile Arg Ala Arg Glu Gln Arg Lys Arg Arg Glu Phe Met		
145	150	155
Met Gln Ser Arg Leu Glu Cys Leu Arg Glu Gln Gln Asn Gly Asp Ser		160
165	170	175
Lys Pro Glu Leu Asn Ile Ile Ala Leu Ser His Arg Lys Thr Met Lys		
180	185	190
Lys Arg Asn Lys Lys Ile Leu Asp Asn Trp Ile Thr Ile Gln Glu Met		
195	200	205
Leu Ala His Gly Ala Arg Ser Ala Asp Gly Lys Arg Val Tyr Asn Pro		
210	215	220
Leu Leu Ser Val Thr Thr Val		
225	230	231

<210> 1178  
<211> 204  
<212>Amino acid  
<213> Homo sapiens

<400> 1178		
Ser Asp Arg Gly Cys Ser Ala Ala Ala Gly Arg Asn Met Thr Ala Val		
1	5	10
Gly Val Gln Ala Gln Arg Pro Leu Gly Gln Arg Gln Pro Arg Arg Ser		15
20	25	30
Phe Phe Ser Phe Ile Arg Thr Leu Ile Ile Thr Cys Val Ala Leu		
35	40	45
Ala Val Val Leu Ser Ser Val Ser Ile Cys Asp Gly His Trp Leu Leu		
50	55	60
Ala Glu Asp Arg Leu Phe Gly Leu Trp His Phe Cys Thr Thr Thr Asn		
65	70	75
Gln Ser Val Pro Ile Cys Phe Arg Asp Leu Gly Gln Ala His Val Pro		80
85	90	95
Gly Leu Ala Val Gly Met Gly Leu Val Arg Ser Val Gly Ala Leu Ala		
100	105	110
Val Val Ala Ala Ile Phe Gly Leu Glu Phe Leu Met Val Ser Gln Leu		
115	120	125
Cys Glu Asp Lys His Ser Gln Cys Lys Trp Val Met Gly Ser Ile Leu		
130	135	140
Leu Leu Val Ser Phe Val Leu Ser Ser Gly Gly Leu Leu Gly Phe Val		
145	150	155
Ile Leu Leu Arg Asn Gln Val Thr Leu Ile Gly Phe Thr Leu Met Phe		160
165	170	175
Trp Cys Glu Phe Thr Ala Ser Phe Leu Leu Phe Leu Asn Ala Ile Ser		
180	185	190
Gly Leu His Ile Asn Ser Ile Thr His Pro Trp Glu		
195	200	204

<210> 1179  
<211> 179  
<212>Amino acid  
<213> Homo sapiens

<400> 1179  
Gln Ile Leu Pro Asn Leu Tyr Leu Gly Ser Ala Arg Asp Ser Ala Asn

1	5	10	15												
Leu	Glu	Ser	Leu	Ala	Lys	Leu	Gly	Ile	Arg	Tyr	Ile	Leu	Asn	Val	Thr
			20			25								30	
Pro	Asn	Leu	Pro	Asn	Phe	Phe	Glu	Lys	Asn	Gly	Asp	Phe	His	Tyr	Lys
			35			40								45	
Gln	Ile	Pro	Ile	Ser	Asp	His	Trp	Ser	Gln	Asn	Leu	Ser	Arg	Phe	Phe
			50			55								60	
Pro	Glu	Ala	Ile	Glu	Phe	Ile	Asp	Glu	Ala	Leu	Ser	Gln	Asn	Cys	Gly
			65			70								80	
Val	Leu	Val	His	Cys	Leu	Ala	Gly	Val	Ser	Arg	Ser	Val	Thr	Val	Thr
			85			90								95	
Val	Ala	Tyr	Leu	Met	Gln	Lys	Leu	His	Leu	Ser	Leu	Asn	Asp	Ala	Tyr
			100			105								110	
Asp	Leu	Val	Lys	Arg	Lys	Ser	Asn	Ile	Ser	Pro	Asn	Phe	Asn	Phe	
			115			120								125	
Met	Gly	Gln	Leu	Leu	Asp	Phe	Glu	Arg	Ser	Leu	Arg	Leu	Glu	Glu	Arg
			130			135								140	
His	Ser	Gln	Glu	Gln	Gly	Ser	Gly	Gly	Gln	Ala	Ser	Ala	Ala	Ser	Asn
			145			150								155	160
Pro	Pro	Ser	Phe	Phe	Thr	Thr	Pro	Thr	Ser	Asp	Gly	Ala	Phe	Glu	Leu
			165											170	175
Ala	Pro	Thr													
			179												

<210> 1180  
<211> 159  
<212>Amino acid  
<213> Homo sapiens

1	5	10	15												
Arg	Lys	Ser	Leu	His	Glu	Asn	Lys	Leu	Lys	Arg	Leu	Gln	Glu	Lys	Val
			20			25								30	
Glu	Val	Leu	Glu	Ala	Lys	Lys	Glu	Glu	Leu	Glu	Thr	Glu	Asn	Gln	Val
			35			40								45	
Arg	Leu	Lys	Asp	Ile	Gln	Arg	Arg	His	Asn	Glu	Phe	Arg	Ser	Leu	Ile
			50			55								60	
Leu	Val	Pro	Asn	Met	Pro	Pro	Thr	Ala	Ser	Ile	Asn	Pro	Val	Ser	Phe
			65			70								75	80
Gln	Ser	Ser	Ala	Met	Gly	Ser	Lys	His	Gly	Thr	Thr	Ile	Ser	Ser	Ser
			85			90								95	
Tyr	Ala	Gly	Gly	Thr	Thr	Ser	Lys	Gly	Thr	Leu	Ser	Thr	Ser	Gln	Lys
			100			105								110	
Thr	Arg	Arg	Thr	Gly	Asn	Asn	Thr	Lys	Lys	Thr	Thr	Arg	Gly	Thr	Trp
			115			120								125	
Ile	Phe	Arg	Arg	Met	Met	Phe	Leu	Glu	Asn	Arg	Gln	Ile	Lys	Arg	Gly
			130			135								140	
Glu	Val	Gly	Asp	Ser	Val	Lys	Leu	Asp	Ile	Leu	Thr	Cys	Gly	Ile	
			145			150								155	159

<210> 1181  
<211> 328  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature

<222> (1) . . . (328)  
 <223> X = any amino acid or stop code

<400> 1181  
 Gly Arg Pro Gly Ala Gly Ala Ser Glu Leu Phe Pro Ser Val Thr Thr  
 1 5 10 15  
 Asp Leu Ser Val Ser Lys Gln Asn Ala Cys Leu Thr Cys Val Asp Phe  
 20 25 30  
 Val Thr Val His Val Cys Met Gly Phe Trp Gly Ile Gly Pro Gly Ala  
 35 40 45  
 Leu Ser Thr Ser Cys Ile Pro Tyr Pro Leu Ser His Gly Pro Gly Ser  
 50 55 60  
 Val Lys Ala Glu Met Leu His Met Tyr Ser Gln Lys Asp Pro Leu Ile  
 65 70 75 80  
 Leu Cys Val Arg Leu Ala Val Leu Leu Ala Val Thr Leu Thr Val Pro  
 85 90 95  
 Val Val Leu Phe Pro Ile Arg Arg Ala Leu Gln Gln Leu Leu Phe Pro  
 100 105 110  
 Gly Lys Ala Phe Ser Trp Pro Arg His Val Ala Ile Ala Leu Ile Leu  
 115 120 125  
 Leu Val Leu Val Asn Val Leu Val Ile Cys Val Pro Thr Ile Arg Asp  
 130 135 140  
 Ile Phe Gly Val Ile Gly Ser Thr Ser Ala Pro Ser Leu Ile Phe Ile  
 145 150 155 160  
 Leu Pro Ser Ile Phe Tyr Leu Arg Ile Val Pro Ser Glu Val Glu Pro  
 165 170 175  
 Phe Leu Ser Trp Pro Lys Ile Gln Ala Leu Cys Phe Gly Val Leu Gly  
 180 185 190  
 Val Leu Phe Met Ala Val Ser Leu Gly Phe Met Phe Ala Asn Trp Ala  
 195 200 205  
 Thr Gly Gln Ser Arg Met Ser Gly His Xaa Ser Gly Pro Ala Gly Pro  
 210 215 220  
 Gly Pro Cys Ala His Ala His Gly Gly Val Arg Ala Ala Pro Xaa Gly  
 225 230 235 240  
 Pro Ser Cys Pro Thr Cys Gly Gly Gly Trp Phe Pro Xaa Thr Trp Leu  
 245 250 255  
 Ser Glu Ala Gly Asp Ser Arg Gly Cys Arg Leu Ala His Phe Pro Pro  
 260 265 270  
 Pro Gln Gly Cys Gln Ala Trp Ile Met Ala Leu Ile Pro Thr Pro Thr  
 275 280 285  
 Pro Trp Glu  
 290 295 300  
 Glu Glu Glu Glu Ala Arg Ser Trp Trp Ser Leu Cys Pro Ala  
 305 310 315 320  
 Gln Ser Ser Leu Pro Pro Pro Gly  
 325 328

<210> 1182  
 <211> 144  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1182  
 Ile Asn Glu Leu Arg Tyr His Leu Glu Glu Ser Arg Asp Lys Asn Val  
 1 5 10 15

Leu	Leu	Cys	Leu	Glu	Glu	Arg	Asp	Trp	Asp	Pro	Gly	Leu	Ala	Ile	Ile
				20				25				30			
Asp	Asn	Leu	Met	Gln	Ser	Ile	Asn	Gln	Ser	Lys	Lys	Thr	Val	Phe	Val
				35				40				45			
Leu	Thr	Lys	Lys	Tyr	Ala	Lys	Ser	Trp	Asn	Phe	Lys	Thr	Ala	Phe	Tyr
				50				55			60				
Leu	Ala	Leu	Gln	Arg	Leu	Met	Asp	Glu	Asn	Met	Asp	Val	Ile	Ile	Phe
				65				70			75				80
Ille	Leu	Leu	Glu	Pro	Val	Leu	Gln	His	Ser	Gln	Tyr	Leu	Arg	Leu	Arg
				85				90			95				95
Gln	Arg	Ile	Cys	Lys	Ser	Ser	Ile	Leu	Gln	Trp	Pro	Asp	Asn	Pro	Lys
				100				105			110				
Ala	Glu	Gly	Leu	Phe	Trp	Gln	Thr	Leu	Arg	Asn	Val	Val	Leu	Thr	Glu
				115				120			125				
Asn	Asp	Ser	Arg	Tyr	Asn	Asn	Met	Tyr	Val	Asp	Ser	Ile	Lys	Gln	Tyr
				130				135			140				144

<210> 1183  
 <211> 484  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1183:															
Asp	Asp	Pro	Ile	Lys	Thr	Ser	Trp	Thr	Pro	Pro	Arg	Tyr	Val	Leu	Ser
1				5				10			15				
Met	Ser	Glu	Glu	Arg	His	Glu	Arg	Val	Arg	Lys	Lys	Tyr	His	Ile	Leu
				20				25			30				
Val	Glu	Gly	Asp	Gly	Ile	Pro	Pro	Pro	Ile	Lys	Ser	Phe	Lys	Glu	Met
				35				40			45				
Lys	Phe	Pro	Ala	Ala	Ile	Leu	Arg	Gly	Leu	Lys	Lys	Gly	Ile	His	
				50				55			60				
His	Pro	Thr	Pro	Ile	Gln	Ile	Gln	Gly	Ile	Pro	Thr	Ile	Leu	Ser	Gly
				65				70			75				80
Arg	Asp	Met	Ile	Gly	Ile	Ala	Phe	Thr	Gly	Ser	Gly	Lys	Thr	Leu	Val
				85				90			95				
Phe	Thr	Leu	Pro	Val	Ile	Met	Phe	Cys	Leu	Glu	Gln	Glu	Lys	Arg	Leu
				100				105			110				
Pro	Phe	Ser	Lys	Arg	Glu	Gly	Pro	Tyr	Gly	Leu	Ile	Ile	Cys	Pro	Ser
				115				120			125				
Arg	Glu	Leu	Ala	Arg	Gln	Thr	His	Gly	Ile	Leu	Glu	Tyr	Tyr	Cys	Arg
				130				135			140				
Leu	Leu	Gln	Glu	Asp	Ser	Ser	Pro	Leu	Leu	Arg	Cys	Ala	Leu	Cys	Ile
				145				150			155				160
Gly	Gly	Met	Ser	Val	Lys	Glu	Gln	Met	Glu	Thr	Ile	Arg	Nis	Gly	Val
				165				170			175				
His	Met	Met	Val	Ala	Thr	Pro	Gly	Arg	Leu	Met	Asp	Leu	Leu	Gln	Lys
				180				185			190				
Lys	Met	Val	Ser	Leu	Asp	Ile	Cys	Arg	Tyr	Leu	Ala	Leu	Asp	Glu	Ala
				195				200			205				
Asp	Arg	Met	Ile	Asp	Met	Gly	Phe	Glu	Gly	Asp	Ile	Arg	Thr	Ile	Phe
				210				215			220				
Ser	Tyr	Phe	Lys	Gly	Gln	Arg	Gln	Thr	Leu	Leu	Phe	Ser	Ala	Thr	Met
				225				230			235				240
Pro	Lys	Lys	Ile	Gln	Asn	Phe	Ala	Lys	Ser	Ala	Leu	Val	Lys	Pro	Val
				245				250			255				
Thr	Ile	Asn	Val	Gly	Arg	Ala	Gly	Ala	Ala	Ser	Leu	Asp	Val	Ile	Gln
				260				265			270				

Glu Val Glu Tyr Val Lys Glu Glu Ala Lys Met Val Tyr Leu Leu Glu  
     275                         280                         285  
 Cys Leu Gln Lys Thr Pro Pro Pro Val Leu Ile Phe Ala Glu Lys Lys  
     290                         295                         300  
 Ala Asp Val Asp Ala Ile His Glu Tyr Leu Leu Leu Lys Gly Val Glu  
     305                         310                         315                         320  
 Ala Val Ala Ile His Gly Gly Lys Asp Gln Glu Glu Arg Thr Lys Ala  
     325                         330                         335  
 Ile Glu Ala Phe Arg Glu Gly Lys Lys Asp Val Leu Val Ala Thr Asp  
     340                         345                         350  
 Val Ala Ser Lys Gly Leu Asp Phe Pro Ala Ile Gln His Val Ile Asn  
     355                         360                         365                         370  
 Tyr Asp Met Pro Glu Glu Ile Glu Asn Tyr Val His Arg Ile Gly Arg  
     370                         375                         380  
 Thr Gly Arg Ser Gly Asn Thr Gly Ile Ala Thr Thr Phe Ile Asn Lys  
     385                         390                         395                         400  
 Ala Cys Asp Glu Ser Val Leu Met Asp Leu Lys Ala Leu Leu Leu Glu  
     405                         410                         415  
 Ala Lys Gln Lys Val Pro Pro Val Leu Gln Val Leu His Cys Gly Asp  
     420                         425                         430  
 Glu Ser Met Leu Asp Ile Gly Gly Glu Arg Gly Cys Ala Phe Cys Gly  
     435                         440                         445  
 Gly Leu Gly His Arg Ile Thr Asp Cys Pro Lys Leu Glu Ala Met Gln  
     450                         455                         460  
 Thr Lys Gln Val Ser Asn Ile Gly Arg Lys Asp Tyr Leu Ala His Ser  
     465                         470                         475                         480  
 Ser Met Asp Phe  
     484

<210> 1184  
 <211> 125  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1184  
 Ile Glu Thr Thr Gln Pro Ser Glu Asp Thr Asn Ala Asn Ser Gln Asp  
     1                         5                         10                         15  
 Asn Ser Met Gln Pro Glu Thr Ser Ser Gln Gln Gln Leu Leu Ser Pro  
     20                         25                         30  
 Thr Leu Ser Asp Arg Gly Gly Ser Arg Gln Asp Ala Ala Asp Ala Gly  
     35                         40                         45  
 Lys Pro Gln Arg Lys Phe Gly Gln Trp Arg Leu Pro Ser Ala Pro Lys  
     50                         55                         60  
 Pro Ile Ser His Ser Val Ser Ser Val Asn Leu Arg Phe Gly Gly Arg  
     65                         70                         75                         80  
 Thr Thr Met Lys Ser Val Val Cys Lys Met Asn Pro Met Thr Asp Ala  
     85                         90                         95  
 Ala Ser Cys Gly Ser Glu Val Lys Lys Trp Trp Thr Arg Gln Leu Thr  
     100                         105                         110  
 Val Glu Ser Asp Glu Ser Gly Asp Asp Leu Leu Asp Ile  
     115                         120                         125

<210> 1185  
 <211> 73  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1185  
 Asn Asp Arg Phe Ser Ala Cys Tyr Phe Thr Leu Lys Leu Lys Glu Ala  
 1 5 10 15  
 Ala Val Arg Gln Arg Glu Ala Leu Lys Lys Leu Thr Lys Asn Ile Ala  
 20 25 30  
 Thr Asp Ser Tyr Ile Ser Val Asn Leu Arg Asp Val Tyr Ala Arg Ser  
 35 40 45  
 Ile Met Glu Met Leu Arg Leu Lys Gly Arg Glu Arg Ala Ser Thr Arg  
 50 55 60  
 Ser Ser Gly Gly Asp Asp Phe Trp Phe  
 65 70 73

<210> 1186  
<211> 343  
<212>Amino acid  
<213> Homo sapiens

<400> 1186  
 Phe Thr Val Phe Ile Leu Gly Ile Thr Ile Arg Pro Leu Val Glu Phe  
 1 5 10 15  
 Leu Asp Val Lys Arg Ser Asn Lys Lys Gln Gln Ala Val Ser Glu Glu  
 20 25 30  
 Ile Tyr Cys Arg Leu Phe Asp His Val Lys Thr Gly Ile Glu Asp Val  
 35 40 45  
 Cys Gly His Trp Gly His Asn Phe Trp Arg Asp Lys Phe Lys Lys Phe  
 50 55 60  
 Asp Asp Lys Tyr Leu Arg Lys Leu Leu Ile Arg Glu Asn Gln Pro Lys  
 65 70 75 80  
 Ser Ser Ile Val Ser Leu Tyr Lys Lys Leu Glu Ile Lys His Ala Ile  
 85 90 95  
 Glu Met Ala Glu Thr Gly Met Ile Ser Thr Val Pro Thr Phe Ala Ser  
 100 105 110  
 Leu Asn Asp Cys Arg Glu Glu Lys Ile Arg Lys Val Thr Ser Ser Glu  
 115 120 125  
 Thr Asp Glu Ile Arg Glu Leu Leu Ser Arg Asn Leu Tyr Gln Ile Arg  
 130 135 140  
 Gln Arg Thr Leu Ser Tyr Asn Arg His Ser Leu Thr Ala Asp Thr Ser  
 145 150 155 160  
 Glu Arg Gln Ala Lys Glu Ile Leu Ile Arg Arg Arg His Ser Leu Arg  
 165 170 175  
 Glu Ser Ile Arg Lys Asp Ser Ser Leu Asn Arg Glu His Arg Ala Ser  
 180 185 190  
 Thr Ser Thr Ser Arg Tyr Leu Ser Leu Pro Lys Asn Thr Lys Leu Pro  
 195 200 205  
 Glu Lys Leu Gln Lys Arg Arg Thr Ile Ser Ile Ala Asp Gly Asn Ser  
 210 215 220  
 Ser Asp Ser Asp Ala Asp Ala Gly Thr Thr Val Leu Asn Leu Gln Pro  
 225 230 235 240  
 Arg Ala Arg Arg Phe Leu Pro Glu Gln Phe Ser Lys Lys Ser Pro Gln  
 245 250 255  
 Ser Tyr Lys Met Glu Trp Lys Asn Glu Val Asp Val Asp Ser Gly Arg  
 260 265 270  
 Asp Met Pro Ser Thr Pro Pro His Ser Arg Glu Lys Gly Thr  
 275 280 285  
 Gln Thr Ser Gly Leu Leu Gln Gln Pro Leu Leu Ser Lys Asp Gln Ser  
 290 295 300

Gly Ser Glu Arg Glu Asp Ser Leu Thr Glu Gly Ile Pro Pro Lys Pro  
 305               310               315               320  
 Pro Pro Arg Leu Val Trp Arg Ala Ser Glu Pro Gly Ser Arg Lys Ala  
 325               330               335  
 Arg Phe Gly Ser Glu Lys Pro  
 340               343

<210> 1187  
 <211> 146  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1187  
 His Glu Glu Ala Ser Gly Leu Ser Val Trp Met Gly Lys Gln Met Glu  
 1               5               10               15  
 Pro Leu His Ala Val Pro Pro Ala Ala Ile Thr Leu Ile Leu Ser Leu  
 20               25               30  
 Leu Val Ala Val Phe Thr Glu Cys Thr Ser Asn Val Ala Thr Thr Thr  
 35               40               45  
 Leu Phe Leu Pro Ile Phe Ala Ser Met Ser Arg Ser Ile Gly Leu Asn  
 50               55               60  
 Pro Leu Tyr Ile Met Leu Pro Cys Thr Leu Ser Ala Ser Phe Ala Phe  
 65               70               75               80  
 Met Leu Pro Val Ala Thr Pro Pro Asn Ala Ile Val Phe Thr Tyr Gly  
 85               90               95  
 His Leu Lys Val Ala Asp Met Val Lys Thr Gly Val Ile Met Asn Ile  
 100              105              110  
 Ile Gly Val Phe Cys Val Phe Leu Ala Val Asn Thr Trp Gly Arg Ala  
 115              120              125  
 Ile Phe Asp Leu Asp His Phe Pro Asp Trp Ala Asn Val Thr His Ile  
 130              135              140  
 Glu Thr  
 145 146

<210> 1188  
 <211> 40  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1188  
 His Glu Leu Glu Asn Asn Trp Leu Gln His Glu Lys Ala Pro Thr Glu  
 1               5               10               15  
 Glu Gly Lys Lys Glu Leu Leu Ala Leu Ser Asn Ala Asn Pro Ser Leu  
 20               25               30  
 Leu Glu Arg His Cys Ala Tyr Leu  
 35               40

<210> 1189  
 <211> 62  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1189  
 Gly Asn Ile Ile Tyr Met Tyr Met Gln Pro Gly Ala Arg Ser Ser Gln  
 1 5 10 15  
 Asp Gln Gly Lys Phe Leu Thr Leu Phe Tyr Asn Ile Val Thr Pro Leu  
 20 25 30  
 Leu Asn Pro Leu Ile Tyr Thr Leu Arg Asn Arg Glu Val Lys Gly Ala  
 35 40 45  
 Leu Gly Arg Leu Leu Leu Gly Lys Arg Glu Leu Gly Lys Glu  
 50 55 60 62

<210> 1190  
<211> 623  
<212>Amino acid  
<213> Homo sapiens

<400> 1190  
 Pro Leu Glu Gln Arg Ser Asn Cys Arg Val Asp Pro Arg Val Arg Thr  
 1 5 10 15  
 His Thr Met Ala Ser Asp Thr Ser Ser Leu Val Gln Ser His Thr Tyr  
 20 25 30  
 Lys Lys Arg Glu Pro Ala Asp Val Pro Tyr Gln Thr Gly Gln Leu His  
 35 40 45  
 Pro Ala Ile Arg Val Ala Asp Leu Leu Gln His Ile Thr Gln Met Lys  
 50 55 60  
 Cys Ala Glu Gly Tyr Gly Phe Lys Glu Glu Tyr Glu Ser Phe Phe Glu  
 65 70 75 80  
 Gly Gln Ser Ala Pro Trp Asp Ser Ala Lys Lys Asp Glu Asn Arg Met  
 85 90 95  
 Lys Asn Arg Tyr Gly Asn Ile Ile Ala Tyr Asp His Ser Arg Val Arg  
 100 105 110  
 Leu Gln Thr Ile Glu Gly Asp Thr Asn Ser Asp Tyr Ile Asn Gly Asn  
 115 120 125  
 Tyr Ile Asp Gly Tyr His Arg Pro Asn His Tyr Ile Ala Thr Gln Gly  
 130 135 140  
 Pro Met Gln Glu Thr Ile Tyr Asp Phe Trp Arg Met Val Trp His Glu  
 145 150 155 160  
 Asn Thr Ala Ser Ile Ile Met Val Thr Asn Leu Val Glu Val Gly Arg  
 165 170 175  
 Val Lys Cys Cys Tyr Trp Pro Asp Asp Thr Glu Ile Tyr Lys Asp  
 180 185 190  
 Ile Lys Val Thr Leu Ile Glu Thr Glu Leu Leu Ala Glu Tyr Val Ile  
 195 200 205  
 Arg Thr Phe Ala Val Glu Lys Arg Gly Val His Glu Ile Arg Glu Ile  
 210 215 220  
 Arg Gln Phe His Phe Thr Gly Trp Pro Asp His Gly Val Pro Tyr His  
 225 230 235 240  
 Ala Thr Gly Leu Leu Gly Phe Val Arg Gln Val Lys Ser Lys Ser Pro  
 245 250 255  
 Pro Ser Ala Gly Pro Leu Val Val His Cys Ser Ala Gly Ala Gly Arg  
 260 265 270  
 Thr Gly Cys Phe Ile Val Ile Asp Ile Met Leu Asp Met Ala Glu Arg  
 275 280 285  
 Glu Gly Val Val Asp Ile Tyr Asn Cys Val Arg Glu Leu Arg Ser Arg  
 290 295 300  
 Arg Val Asn Met Val Gln Thr Glu Glu Gln Tyr Val Phe Ile His Asp  
 305 310 315 320

Ala Ile Leu Glu Ala Cys Leu Cys Gly Asp Thr Ser Val Pro Ala Ser  
 325 330 335  
 Gln Val Arg Ser Leu Tyr Tyr Asp Met Asn Lys Leu Asp Pro Gln Thr  
 340 345 350  
 Asn Ser Ser Gln Ile Lys Glu Glu Phe Arg Thr Leu Asn Met Val Thr  
 355 360 365  
 Pro Thr Leu Arg Val Glu Asp Cys Ser Ile Ala Leu Leu Pro Arg Asn  
 370 375 380  
 His Glu Lys Asn Arg Cys Met Asp Ile Leu Pro Pro Asp Arg Cys Leu  
 385 390 395 400  
 Pro Phe Leu Ile Thr Ile Asp Gly Glu Ser Ser Asn Tyr Ile Asn Ala  
 405 410 415  
 Ala Leu Met Asp Ser Tyr Lys Gln Pro Ser Ala Phe Ile Val Thr Gln  
 420 425 430  
 His Pro Leu Pro Asn Thr Val Lys Asp Phe Trp Arg Leu Val Leu Asp  
 435 440 445  
 Tyr His Cys Thr Ser Val Val Met Leu Asn Asp Val Asp Pro Ala Gln  
 450 455 460  
 Leu Cys Pro Gln Tyr Trp Pro Glu Asn Gly Val His Arg His Gly Pro  
 465 470 475 480  
 Ile Gln Val Glu Phe Val Ser Ala Asp Leu Glu Glu Asp Ile Ile Ser  
 485 490 495  
 Arg Ile Phe Arg Ile Tyr Asn Ala Ala Arg Pro Gln Asp Gly Tyr Arg  
 500 505 510  
 Met Val Gln Gln Phe Gln Phe Leu Gly Trp Pro Met Tyr Arg Asp Thr  
 515 520 525  
 Pro Val Ser Lys Arg Ser Phe Leu Lys Leu Ile Arg Gln Val Asp Lys  
 530 535 540  
 Trp Gln Glu Glu Tyr Asn Gly Gly Glu Gly Arg Thr Val Val His Cys  
 545 550 555 560  
 Leu Asn Gly Gly Arg Ser Gly Thr Phe Cys Ala Ile Ser Ile Val  
 565 570 575  
 Cys Glu Met Leu Arg His Gln Arg Thr Val Asp Val Phe His Ala Val  
 580 585 590  
 Lys Thr Leu Arg Asn Asn Lys Pro Asn Met Val Asp Leu Leu Asp Gln  
 595 600 605  
 Tyr Lys Phe Cys Tyr Glu Val Ala Leu Glu Tyr Leu Asn Ser Gly  
 610 615 620 623

<210> 1191  
 <211> 86  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1191  
 Pro Leu Thr Tyr Asn Lys Lys Tyr Thr Tyr Pro Trp Trp Gly Asp Ala  
 1 5 10 15  
 Leu Gly Trp Leu Leu Ala Leu Ser Ser Met Val Cys Ile Pro Ala Trp  
 20 25 30  
 Ser Leu Tyr Arg Leu Gly Thr Leu Lys Gly Pro Phe Arg Glu Arg Ile  
 35 40 45  
 Arg Gln Leu Met Cys Pro Ala Glu Asp Leu Pro Gln Arg Asn Pro Ala  
 50 55 60  
 Gly Pro Ser Ala Pro Ala Thr Pro Arg Thr Ser Leu Leu Arg Leu Thr  
 65 70 75 80  
 Glu Leu Glu Ser His Cys  
 85 86

<210> 1192  
<211> 109  
<212>Amino acid  
<213> Homo sapiens

<400> 1192  
Thr Leu Ser Glu Ser Gly Ala Leu Phe Ser Leu Gly Pro Pro Pro Leu  
1 5 10 15  
Ser Leu Lys Ser Ser Ser Ala Pro Arg Pro Tyr Ser Thr Leu Arg Asp  
20 25 30  
Cys Leu Glu His Phe Ala Glu Leu Phe Asp Leu Gly Phe Pro Asn Pro  
35 40 45  
Leu Ala Glu Arg Ile Ile Phe Glu Thr His Gln Ile His Phe Ala Asn  
50 55 60  
Cys Ser Leu Gly Gln Pro Thr Phe Ser Asp Pro Pro Glu Asp Val Leu  
65 70 75 80  
Leu Ala Met Ile Ile Ala Pro Ile Cys Leu Ile Pro Phe Leu Ile Thr  
85 90 95  
Leu Val Val Trp Arg Ser Lys Asp Ser Glu Ala Gln Ala  
100 105 109

<210> 1193  
<211> 257  
<212>Amino acid  
<213> Homo sapiens

<400> 1193  
Cys Glu Glu Arg Glu Gln Glu Lys Asp Asp Val Asp Val Ala Leu Leu  
1 5 10 15  
Pro Thr Ile Val Glu Lys Val Ile Leu Pro Lys Leu Thr Val Ile Ala  
20 25 30  
Glu Asn Met Trp Asp Pro Phe Ser Thr Thr Gln Thr Ser Arg Met Val  
35 40 45  
Gly Ile Thr Leu Lys Leu Ile Asn Gly Tyr Pro Ser Val Val Asn Ala  
50 55 60  
Glu Asn Lys Asn Thr Gln Val Tyr Leu Lys Ala Leu Leu Leu Arg Met  
65 70 75 80  
Arg Arg Thr Leu Asp Asp Asp Val Phe Met Pro Leu Tyr Pro Lys Asn  
85 90 95  
Val Leu Glu Asn Lys Asn Ser Gly Pro Tyr Leu Phe Phe Gln Arg Gln  
100 105 110  
Phe Trp Ser Ser Val Lys Leu Leu Gly Asn Phe Leu Gln Trp Tyr Gly  
115 120 125  
Ile Phe Ser Asn Lys Thr Leu Gln Glu Leu Ser Ile Asp Gly Leu Leu  
130 135 140  
Asn Arg Tyr Ile Leu Met Ala Phe Gln Asn Ser Glu Tyr Gly Asp Asp  
145 150 155 160  
Ser Ile Lys Lys Ala Gln Asn Val Ile Asn Cys Phe Pro Lys Gln Trp  
165 170 175  
Phe Met Asn Leu Lys Gly Glu Arg Thr Ile Ser Gln Leu Glu Asn Phe  
180 185 190  
Cys Arg Tyr Leu Val His Leu Ala Asp Thr Ile Tyr Arg Asn Ser Ile  
195 200 205  
Gly Cys Ser Asp Val Glu Lys Arg Asn Ala Arg Glu Asn Ile Lys Gln  
210 215 220

Ile Val Lys Leu Ile Ala Ser Val Arg Ala	Leu Asp His Ala Met Ser		
225	230	235	240
Val Ala Ser Asp His Asn Val Lys Glu Phe	Lys Ser Leu Ile Glu Gly		
245		250	255
Lys			
257			

<210> 1194  
<211> 416  
<212>Amino acid  
<213> Homo sapiens

<400> 1194			
Thr Pro Phe Cys Phe Leu Cys Ser Leu Val Phe Arg Ser Arg Val Trp			
1	5	10	15
Ala Glu Pro Cys Leu Ile Asp Ala Ala Lys Glu Glu Tyr Asn Gly Val			
20	25	30	
Ile Glu Glu Phe Leu Ala Thr Gly Glu Lys Leu Phe Gly Pro Tyr Val			
35	40	45	
Trp Gly Arg Tyr Asp Leu Phe Met Pro Pro Ser Phe Pro Phe Gly			
50	55	60	
Gly Met Glu Asn Pro Cys Leu Thr Phe Val Thr Pro Cys Leu Leu Ala			
65	70	75	80
Gly Asp Arg Ser Leu Ala Asp Val Ile Ile His Glu Ile Ser His Ser			
85	90	95	
Trp Phe Gly Asn Leu Val Thr Asn Ala Asn Trp Gly Glu Phe Trp Leu			
100	105	110	
Asn Glu Gly Phe Thr Met Tyr Ala Gln Arg Arg Ile Ser Thr Ile Leu			
115	120	125	
Phe Gly Ala Ala Tyr Thr Cys Leu Glu Ala Ala Thr Gly Arg Ala Leu			
130	135	140	
Leu Arg Gln His Met Asp Ile Thr Gly Glu Asn Pro Leu Asn Lys			
145	150	155	160
Leu Arg Val Lys Ile Glu Pro Gly Val Asp Pro Asp Asp Thr Tyr Asn			
165	170	175	
Glu Thr Pro Tyr Glu Lys Gly Phe Cys Phe Val Ser Tyr Leu Ala His			
180	185	190	
Leu Val Gly Asp Gln Asp Gln Phe Asp Ser Phe Leu Lys Ala Tyr Val			
195	200	205	
His Glu Phe Lys Phe Arg Ser Ile Leu Ala Asp Asp Phe Leu Asp Phe			
210	215	220	
Tyr Leu Glu Tyr Phe Pro Glu Leu Lys Lys Arg Val Asp Ile Ile			
225	230	235	240
Pro Gly Phe Glu Phe Asp Arg Trp Leu Asn Thr Pro Gly Trp Pro Pro			
245	250	255	
Tyr Leu Pro Asp Leu Ser Pro Gly Asp Ser Leu Met Lys Pro Ala Glu			
260	265	270	
Glu Leu Ala Gln Leu Trp Ala Ala Glu Glu Leu Asp Met Lys Ala Ile			
275	280	285	
Glu Ala Val Ala Ile Ser Pro Trp Lys Thr Tyr Gln Leu Val Tyr Phe			
290	295	300	
Leu Asp Lys Ile Leu Gln Lys Ser Pro Leu Pro Phe Asn Val Lys			
305	310	315	320
Lys Leu Gly Asp Thr Tyr Pro Ser Ile Ser Asn Ala Arg Asn Ala Glu			
325	330	335	
Leu Arg Leu Arg Trp Gly Gln Ile Val Leu Lys Asn Asp His Gln Glu			
340	345	350	
Asp Phe Trp Lys Val Lys Glu Phe Leu His Asn Gln Gly Lys Gln Lys			
355	360	365	

Tyr	Thr	Leu	Pro	Leu	Tyr	His	Ala	Met	Met	Gly	Gly	Ser	Glu	Val	Ala
370					375					380					
Gln	Thr	Leu	Ala	Lys	Glu	Thr	Phe	Ala	Ser	Thr	Ala	Ser	Gln	Leu	His
385					390					395					400
Ser	Asn	Val	Val	Asn	Tyr	Val	Gln	Gln	Ile	Val	Ala	Pro	Lys	Gly	Ser
					405				410				415	416	

<210> 1195  
<211> 295  
<212>Amino acid  
<213> Homo sapiens

<400> 1195															
Cys	Ala	Ser	Gly	Ser	Ser	Gly	Trp	Arg	Pro	Val	Leu	Trp	Ala	Gly	Ala
1							5			10				15	
Phe	Thr	Met	Ala	Ser	Ala	Glu	Leu	Asp	Tyr	Thr	Ile	Glu	Ile	Pro	Asp
							20			25				30	
Gln	Pro	Cys	Trp	Ser	Gln	Lys	Asn	Ser	Pro	Ser	Pro	Gly	Gly	Lys	Glu
						35			40			45			
Ala	Glu	Thr	Arg	Gln	Pro	Val	Val	Ile	Leu	Leu	Gly	Trp	Gly	Gly	Cys
	50							55			60				
Lys	Asp	Lys	Asn	Leu	Ala	Lys	Tyr	Ser	Ala	Ile	Tyr	His	Lys	Arg	Gly
65						70				75			80		
Cys	Ile	Val	Ile	Arg	Tyr	Thr	Ala	Pro	Trp	His	Met	Val	Phe	Phe	Ser
				85					90			95			
Glu	Ser	Leu	Gly	Ile	Pro	Ser	Leu	Arg	Val	Leu	Ala	Gln	Lys	Leu	Leu
				100				105					110		
Glu	Leu	Leu	Phe	Asp	Tyr	Glu	Ile	Glu	Lys	Glu	Pro	Leu	Leu	Phe	His
							115			120			125		
Val	Phe	Ser	Asn	Gly	Gly	Val	Met	Leu	Tyr	Arg	Tyr	Val	Leu	Glu	Leu
							130			135			140		
Leu	Gln	Thr	Arg	Arg	Phe	Cys	Arg	Leu	Arg	Val	Val	Gly	Thr	Ile	Phe
145						150					155			160	
Asp	Ser	Ala	Pro	Gly	Asp	Ser	Asn	Leu	Val	Gly	Ala	Leu	Arg	Ala	Leu
							165			170			175		
Ala	Ala	Ile	Leu	Glu	Arg	Arg	Ala	Ala	Met	Leu	Arg	Leu	Leu	Leu	
							180			185			190		
Val	Ala	Phe	Ala	Leu	Val	Val	Val	Phe	His	Val	Leu	Leu	Ala	Pro	
							195			200			205		
Ile	Thr	Ala	Leu	Phe	His	Thr	His	Phe	Tyr	Asp	Arg	Leu	Gln	Asp	Ala
							210			215			220		
Gly	Ser	Arg	Trp	Pro	Glu	Leu	Tyr	Leu	Tyr	Ser	Arg	Ala	Asp	Glu	Val
225							230				235			240	
Val	Leu	Ala	Arg	Asp	Ile	Glu	Arg	Met	Val	Glu	Ala	Arg	Leu	Ala	Arg
							245			250			255		
Arg	Val	Leu	Ala	Arg	Ser	Val	Asp	Phe	Val	Ser	Ser	Ala	His	Val	Ser
							260			265			270		
His	Leu	Arg	Asp	Tyr	Pro	Thr	Tyr	Tyr	Thr	Ser	Leu	Cys	Val	Asp	Phe
							275			280			285		
Met	Arg	Asn	Trp	Val	Arg	Cys									
				290			295								

<210> 1196  
<211> 97  
<212>Amino acid  
<213> Homo sapiens

<400> 1196  
 Pro Arg Val Arg Asp Arg Leu Pro Ser Thr Gly Val Arg Asp Arg Lys  
   1               5               10               15  
 Gly Asp Lys Pro Trp Lys Glu Ser Gly Gly Ser Val Glu Ala Pro Arg  
   20              25              30  
 Met Gly Phe Thr His Pro Pro Gly His Leu Ser Gly Cys Gln Ser Ser  
   35              40              45  
 Leu Ala Ser Gly Glu Thr Gly Thr Gly Ser Ala Asp Pro Pro Gly Gly  
   50              55              60  
 Pro Arg Pro Gly Ile Thr Arg Arg Ala Pro Val Lys Asp Thr Pro Gly  
   65              70              75              80  
 Arg Ala Pro Ala Ala Asp Ala Ala Pro Ala Gly Pro Ser Ser Cys Leu  
   85              90              95  
 Gly  
   97

<210> 1197  
 <211> 204  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1197  
 Gln Gly Arg Thr Ser Cys Ile Gly Leu Tyr Thr Tyr Gln Arg Arg Ile  
   1               5               10               15  
 Cys Lys Tyr Arg Asp Gln Tyr Asn Trp Phe Phe Leu Ala Arg Pro Thr  
   20              25              30  
 Thr Phe Ala Ile Ile Glu Asn Leu Lys Tyr Phe Leu Leu Lys Lys Asp  
   35              40              45  
 Pro Ser Gln Pro Phe Tyr Leu Gly His Thr Ile Lys Ser Gly Asp Leu  
   50              55              60  
 Glu Tyr Val Gly Met Glu Gly Gly Ile Val Leu Ser Val Glu Ser Met  
   65              70              75              80  
 Lys Arg Leu Asn Ser Leu Leu Asn Ile Pro Glu Lys Cys Pro Glu Gln  
   85              90              95  
 Gly Gly Met Ile Tyr Lys Ile Ser Glu Asp Lys Gln Leu Ala Val Cys  
   100            105            110  
 Leu Lys Tyr Ala Gly Val Phe Ala Glu Asn Ala Glu Asp Ala Asp Gly  
   115            120            125  
 Lys Asp Val Phe Asn Thr Lys Ser Val Gly Leu Ser Ile Lys Glu Ala  
   130            135            140  
 Met Thr Tyr His Pro Asn Gln Val Val Glu Gly Cys Ser Asp Met  
   145            150            155            160  
 Ala Val Thr Phe Asn Gly Leu Thr Pro Asn Gln Met His Val Met Met  
   165            170            175  
 Tyr Gly Val Tyr Arg Leu Arg Ala Phe Gly His Ile Phe Asn Asp Ala  
   180            185            190  
 Leu Val Phe Leu Pro Pro Asn Gly Ser Asp Asn Asp  
   195            200            204

<210> 1198  
 <211> 238  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1198  
 His Glu Gly Lys Pro Thr Arg Gly Arg Gly Arg Gly Ser Leu Ser  
 1 5 10 15  
 Thr Arg Gly Arg Gly Ser Glu Val Pro Asp Ser Ala His Leu Ala Pro  
 20 25 30  
 Thr Pro Leu Phe Ser Glu Ser Gly Cys Cys Gly Leu Arg Ser Arg Phe  
 35 40 45  
 Leu Thr Asp Cys Lys Met Glu Glu Gly Gly Asn Leu Gly Gly Leu Ile  
 50 55 60  
 Lys Met Val His Leu Leu Val Leu Ser Gly Ala Trp Gly Met Gln Met  
 65 70 75 80  
 Trp Val Thr Phe Val Ser Gly Phe Leu Leu Phe Arg Ser Leu Pro Arg  
 85 90 95  
 His Thr Phe Gly Leu Val Gln Ser Lys Leu Phe Pro Phe Tyr Phe His  
 100 105 110  
 Ile Ser Met Gly Cys Ala Phe Ile Asn Leu Cys Ile Leu Ala Ser Gln  
 115 120 125  
 His Ala Trp Ala Gln Leu Thr Phe Trp Glu Ala Ser Gln Leu Tyr Leu  
 130 135 140  
 Leu Phe Leu Ser Leu Thr Leu Ala Thr Val Asn Ala Arg Trp Leu Glu  
 145 150 155 160  
 Pro Arg Thr Thr Ala Ala Met Trp Ala Leu Gln Thr Val Glu Lys Glu  
 165 170 175  
 Arg Gly Leu Gly Gly Glu Val Pro Gly Ser His Gln Gly Pro Asp Pro  
 180 185 190  
 Tyr Arg Gln Leu Arg Glu Lys Asp Pro Lys Tyr Ser Ala Leu Arg Gln  
 195 200 205  
 Asn Phe Phe Arg Tyr His Gly Leu Ser Ser Leu Cys Asn Leu Gly Cys  
 210 215 220  
 Val Leu Ser Asn Gly Leu Cys Leu Ala Ala Leu Pro Trp Lys  
 225 230 235 238

<210> 1199  
 <211> 100  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1199  
 Lys Gln Leu Asp Lys Gln Leu Arg Ala Asp Pro Ser Gly Ser Leu Pro  
 1 5 10 15  
 Pro Leu Pro Pro Ser Pro Pro Pro Pro Leu Glu Ala Gly Gly Arg Pro  
 20 25 30  
 Pro Glu Val Pro Pro Arg Gly Pro Ser Ala Val Pro Ser Phe Pro Ser  
 35 40 45  
 Val Ser Gly Asp Trp Gly Gly Pro Val Glu Ala Gly Glu Gly Gly Gln  
 50 55 60  
 Gln Gly Arg Gly Arg Ala Arg Ala Arg Pro Cys Ser Leu Pro Pro Leu  
 65 70 75 80  
 Leu Pro Pro Ser Pro Val Cys Arg Leu Ser Gly Ser Arg Ala Pro Leu  
 85 90 95  
 Gly Cys Asp Gly  
 100

<210> 1200  
<211> 194  
<212>Amino acid  
<213> Homo sapiens

<400> 1200  
Arg Asn Gln Leu Ser Ser Gln Ser Val Pro Trp Val Pro Ile Leu  
1 5 10 15  
Lys Ser Leu Pro Leu Trp Ala Ile Val Val Ala His Phe Ser Tyr Asn  
20 25 30  
Trp Thr Phe Tyr Thr Leu Leu Thr Leu Leu Pro Thr Tyr Met Lys Glu  
35 40 45  
Ile Leu Arg Phe Asn Val Gln Glu Asn Gly Phe Leu Ser Ser Leu Pro  
50 55 60  
Tyr Leu Gly Ser Trp Leu Cys Met Ile Leu Ser Gly Gln Ala Ala Asp  
65 70 75 80  
Asn Leu Arg Ala Lys Trp Asn Phe Ser Thr Leu Cys Val Arg Arg Ile  
85 90 95  
Phe Ser Leu Ile Gly Met Ile Gly Pro Ala Val Phe Leu Val Ala Ala  
100 105 110  
Gly Phe Ile Gly Cys Asp Tyr Ser Leu Ala Val Ala Phe Leu Thr Ile  
115 120 125  
Ser Thr Thr Leu Gly Gly Phe Cys Ser Ser Gly Phe Ser Ile Asn His  
130 135 140  
Leu Asp Ile Ala Pro Ser Tyr Ala Gly Ile Leu Leu Gly Ile Thr Asn  
145 150 155 160  
Thr Phe Ala Thr Ile Pro Gly Met Val Gly Pro Val Ile Ala Lys Ser  
165 170 175  
Leu Thr Pro Asp Met Gly Ile Ser Leu His Arg Pro Gly Trp Ser Ala  
180 185 190  
Val Ala  
194

<210> 1201  
<211> 119  
<212>Amino acid  
<213> Homo sapiens

<400> 1201  
Gly Pro Ser Gly Thr Thr His Ala Ser Ala His Ser Gly His Pro Gly  
1 5 10 15  
Ser Pro Arg Gly Ser Leu Ser Arg His Pro Ser Ser Gln Leu Ala Gly  
20 25 30  
Pro Gly Val Glu Gly Gly Glu Gly Thr Gln Lys Pro Arg Asp Tyr Ile  
35 40 45  
Ile Leu Ala Ile Leu Ser Cys Phe Cys Pro Met Trp Pro Val Asn Ile  
50 55 60  
Val Ala Phe Ala Tyr Ala Val Met Ser Arg Asn Ser Leu Gln Gln Gly  
65 70 75 80  
Asp Val Asp Gly Ala Gln Arg Leu Gly Arg Val Ala Lys Leu Leu Ser  
85 90 95  
Ile Val Ala Leu Val Gly Gly Val Leu Ile Ile Ala Ser Cys Val  
100 105 110  
Ile Asn Leu Gly Val Tyr Lys  
115 119

<210> 1202  
<211> 66  
<212>Amino acid  
<213> Homo sapiens

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<400> 1202
Ser Leu Phe Leu Ser Phe Pro Pro Leu Ser Phe Lys Met Thr Leu Asn
      1           5           10          15
Asp Ala Met Arg Asn Lys Ala Arg Leu Ser Ile Thr Gly Ser Thr Gly
      20          25          30
Glu Asn Gly Arg Val Met Thr Pro Glu Phe Pro Lys Ala Val His Ala
      35          40          45
Val Pro Tyr Val Ser Pro Gly Met Gly Met Asn Val Ser Val Thr Asp
      50          55          60
Leu Ser
      65          66

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<210> 1203  
<211> 509  
<212>Amino acid  
<213> Homo sapiens

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<400> 1203
Asp Asp Val Pro Pro Ala Pro Asp Leu Tyr Asp Val Pro Pro Gly
      1           5          10          15
Leu Arg Arg Pro Gly Pro Gly Thr Leu Tyr Asp Val Pro Arg Glu Arg
      20           25          30
Val Leu Pro Pro Glu Val Ala Asp Gly Gly Val Val Asp Ser Gly Val
      35           40          45
Tyr Ala Val Pro Pro Pro Ala Glu Arg Glu Ala Pro Ala Glu GLY Lys
      50           55          60
Arg Leu Ser Ala Ser Ser Thr Gly Ser Thr Arg Ser Ser Gln Ser Ala
      65           70          75          80
Ser Ser Leu Glu Val Ala Gly Pro Gly Arg Glu Pro Leu Glu Leu Glu
      85           90          95
Val Ala Val Glu Ala Leu Ala Arg Leu Gln Gln Gly Val Ser Ala Thr
      100          105         110
Val Ala His Leu Leu Asp Leu Ala Gly Ser Ala Gly Ala Thr Gly Ser
      115          120          125
Trp Arg Ser Pro Ser Glu Pro Gln Glu Pro Leu Val Gln Asp Leu Gln
      130          135          140
Ala Ala Val Ala Ala Val Gln Ser Ala Val His Glu Leu Leu Glu Phe
      145          150          155          160
Ala Arg Ser Ala Val Gly Asn Ala Ala His Thr Ser Asp Arg Ala Leu
      165          170          175
His Ala Lys Leu Ser Arg Gln Leu Gln Lys Met Glu Asp Val His Gln
      180          185          190
Thr Leu Val Ala His Gly Gln Ala Leu Asp Ala Gly Arg Gly Gly Ser
      195          200          205
Gly Ala Thr Leu Glu Asp Leu Asp Arg Leu Val Ala Cys Ser Arg Ala
      210          215          220
Val Pro Glu Asp Ala Lys Gln Leu Ala Ser Phe Leu His Gly Asn Ala
      225          230          235

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Ser Leu Leu Phe Arg Arg Thr Lys Ala Thr Ala Pro Gly Pro Glu Gly  
 245 250 255  
 Gly Gly Thr Leu His Pro Asn Pro Thr Asp Lys Thr Ser Ser Ile Gln  
 260 265 270  
 Ser Arg Pro Leu Pro Ser Pro Pro Lys Phe Thr Ser Gln Asp Ser Pro  
 275 280 285  
 Asp Gly Gln Tyr Glu Asn Ser Glu Gly Gly Trp Met Glu Asp Tyr Asp  
 290 295 300  
 Tyr Val His Leu Gln Gly Lys Glu Glu Phe Glu Lys Thr Gln Lys Gln  
 305 310 315 320  
 Leu Leu Glu Lys Gly Ser Ile Thr Arg Gln Gly Lys Ser Gln Leu Glu  
 325 330 335  
 Leu Gln Gln Leu Lys Gln Phe Glu Arg Leu Glu Gln Glu Val Ser Arg  
 340 345 350  
 Pro Ile Asp His Asp Leu Ala Asn Trp Thr Pro Ala Gln Pro Leu Ala  
 355 360 365  
 Pro Gly Arg Thr Gly Gly Leu Gly Pro Ser Asp Arg Gln Leu Leu Leu  
 370 375 380  
 Phe Tyr Leu Glu Gln Cys Glu Ala Asn Leu Thr Thr Leu Thr Asn Ala  
 385 390 395 400  
 Val Asp Ala Phe Phe Thr Ala Val Ala Thr Asn Gln Pro Pro Lys Ile  
 405 410 415  
 Phe Val Ala His Ser Lys Phe Val Ile Leu Ser Ala His Lys Leu Val  
 420 425 430  
 Phe Ile Gly Asp Thr Leu Ser Arg Gln Ala Ala Lys Ala Ala Asp Val Arg  
 435 440 445  
 Ser Gln Val Thr His Tyr Ser Asn Leu Leu Cys Asp Leu Leu Arg Gly  
 450 455 460  
 Ile Val Ala Thr Thr Lys Ala Ala Ala Leu Gln Tyr Pro Ser Pro Ser  
 465 470 475 480  
 Ala Ala Gln Asp Met Val Glu Arg Val Lys Glu Leu Gly His Ser Thr  
 485 490 495  
 Gln Gln Phe Arg Arg Val Leu Gly Gln Leu Ala Ala Ala  
 500 505 509

<210> 1204  
 <211> 453  
 <212>Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(453)  
 <223> X = any amino acid or stop code

<400> 1204  
 Glu Met Glu Glu Pro Gln Lys Ser Tyr Val Asn Thr Met Asp Leu Glu  
 1 5 10 15  
 Arg Asp Glu Pro Leu Lys Ser Thr Gly Pro Gln Ile Ser Val Ser Glu  
 20 25 30  
 Phe Ser Cys His Cys Cys Tyr Asp Ile Leu Val Asn Pro Thr Thr Leu  
 35 40 45  
 Asn Cys Gly His Ser Phe Cys Arg His Cys Leu Ala Leu Trp Trp Ala  
 50 55 60  
 Ser Ser Lys Lys Thr Glu Cys Pro Glu Cys Arg Glu Lys Trp Glu Gly  
 65 70 75 80  
 Phe Pro Lys Val Ser Ile Leu Leu Arg Asp Ala Ile Glu Lys Leu Phe  
 85 90 95  
 Pro Asp Ala Ile Arg Leu Arg Phe Glu Asp Ile Gln Gln Asn Asn Asp

Ile	Val	Gln	100	105	110										
Ser	Leu	Ala	Ala	Phe	Gln	Lys	Tyr	Gly	Asn	Asp	Gln	Ile			
115				120		125									
Pro	Leu	Ala	Pro	Asn	Thr	Gly	Arg	Ala	Asn	Gln	Met	Gly	Gly		
130				135		140									
Phe	Phe	Ser	Gly	Val	Leu	Thr	Ala	Leu	Thr	Gly	Val	Ala	Val	Val	Leu
145				150		155									160
Leu	Val	Tyr	His	Trp	Ser	Ser	Arg	Glu	Ser	Glu	His	Asp	Leu	Leu	Val
165				170		175									
His	Lys	Ala	Val	Ala	Lys	Trp	Thr	Ala	Glu	Glu	Val	Val	Leu	Trp	Leu
180				185		190									
Glu	Gln	Leu	Gly	Pro	Trp	Ala	Ser	Leu	Tyr	Arg	Glu	Arg	Phe	Leu	Ser
195				200		205									
Glu	Arg	Val	Asn	Gly	Arg	Leu	Leu	Leu	Thr	Leu	Thr	Glu	Glu	Glu	Phe
210				215		220									
Ser	Lys	Thr	Pro	Tyr	Thr	Ile	Glu	Asn	Ser	Ser	His	Arg	Arg	Ala	Ile
225				230		235									240
Leu	Met	Glu	Leu	Glu	Arg	Val	Lys	Ala	Leu	Gly	Val	Lys	Pro	Pro	Gln
245				250		255									
Asn	Leu	Trp	Glu	Tyr	Lys	Ala	Val	Asn	Pro	Gly	Arg	Ser	Leu	Phe	Leu
260				265		270									
Leu	Tyr	Ala	Leu	Lys	Ser	Ser	Pro	Arg	Leu	Ser	Leu	Leu	Tyr	Leu	Tyr
275				280		285									
Leu	Phe	Asp	Tyr	Thr	Asp	Thr	Phe	Leu	Pro	Phe	Ile	His	Thr	Ile	Cys
290				295		300									
Pro	Leu	Gln	Glu	Asp	Ser	Ser	Gly	Glu	Asp	Ile	Val	Thr	Lys	Leu	Leu
305				310		315									320
Asp	Leu	Lys	Glu	Pro	Thr	Trp	Lys	Glu	Trp	Arg	Glu	Phe	Leu	Val	Lys
325				330		335									
Tyr	Ser	Phe	Leu	Pro	Tyr	Gln	Leu	Ile	Ala	Glu	Phe	Ala	Trp	Asp	Trp
340				345		350									
Leu	Glu	Val	His	Tyr	Trp	Thr	Ser	Arg	Phe	Leu	Ile	Ile	Asn	Ala	Met
355				360		365									
Leu	Leu	Ser	Val	Leu	Glu	Leu	Phe	Ser	Phe	Trp	Arg	Ile	Trp	Ser	Arg
370				375		380									
Ser	Glu	Leu	Lys	Xaa	Val	Gly	Phe	Arg	Phe	Leu	Arg	Leu	Gly	Val	Ala
385				390		395									400
Ala	Leu	Gly	Ser	Val	Glu	Val	Ala	Gly	Leu	Arg	Gly	Val	Val	Lys	Gly
405				410		415									
Glu	Arg	Pro	Leu	Leu	Tyr	Gly	His	Gly	Ala	Gly	Ala	Arg	Phe	Pro	His
420				425		430									
Ser	Val	Leu	Leu	Leu	Pro	Val	Ala	Lys	Pro	Leu	Pro	Leu	Pro	Leu	Leu
435				440		445									
Pro	Arg	Gly	Leu	Cys											
450				453											

<210> 1205  
 <211> 80  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1205  
 Glu Lys Ala Arg Met Ile Tyr Glu Asp Tyr Ile Ser Ile Leu Ser Pro  
 1 5 10 15  
 Lys Glu Val Ser Leu Asp Ser Arg Val Arg Glu Val Ile Asn Arg Asn  
 20 25 30  
 Leu Leu Asp Pro Asn Pro His Met Tyr Glu Asp Ala Gln Leu Gln Ile  
 35 40 45  
 Tyr Thr Leu Met His Arg Asp Ser Phe Pro Arg Phe Leu Asn Ser Gln

50	55	60
Ile Tyr Lys Ser Phe Val Glu Ser Thr Ala Gly Ser Ser Ser Glu Ser		
65	70	75
		80

<210> 1206  
<211> 205  
<212>Amino acid  
<213> Homo sapiens

<400> 1206																
Leu	Tyr	Tyr	Ser	Gln	Asp	Glu	Glu	Ser	Lys	Ile	Met	Ile	Ser	Asp	Phe	
1																
						5	10	15								
Gly	Leu	Leu	Ser	Lys	Met	Glu	Gly	Lys	Gly	Asp	Val	Met	Ser	Thr	Ala	Cys
						20	25	30								
Gly	Thr	Pro	Gly	Tyr	Val	Ala	Pro	Glu	Val	Leu	Ala	Gln	Lys	Pro	Tyr	
						35	40	45								
Ser	Lys	Ala	Val	Asp	Cys	Trp	Ser	Ile	Gly	Val	Ile	Ala	Tyr	Ile	Leu	
						50	55	60								
Leu	Cys	Gly	Tyr	Pro	Pro	Phe	Tyr	Asp	Glu	Asn	Asp	Ser	Lys	Leu	Phe	
						65	70	75	80							
Glu	Gln	Ile	Leu	Lys	Ala	Glu	Tyr	Glu	Phe	Asp	Ser	Pro	Tyr	Trp	Asp	
						85	90	95								
Asp	Ile	Ser	Asp	Ser	Ala	Lys	Asp	Phe	Ile	Arg	Asn	Leu	Met	Glu	Lys	
						100	105	110								
Asp	Pro	Asn	Lys	Arg	Tyr	Thr	Cys	Glu	Gln	Ala	Ala	Arg	His	Pro	Trp	
						115	120	125								
Ile	Ala	Gly	Asp	Thr	Ala	Leu	Asn	Lys	Ile	His	Glu	Ser	Val	Ser		
						130	135	140								
Ala	Gln	Ile	Arg	Lys	Asn	Phe	Ala	Lys	Ser	Lys	Trp	Arg	Gln	Ala	Phe	
						145	150	155	160							
Asn	Ala	Thr	Ala	Val	Val	Arg	His	Met	Arg	Lys	Leu	His	Leu	Gly	Ser	
						165	170	175								
Ser	Leu	Asp	Ser	Ser	Asn	Ala	Ser	Val	Ser	Ser	Ser	Leu	Ser	Leu	Ala	
						180	185	190								
Ser	Gln	Lys	Asp	Cys	Ala	Ser	Gly	Thr	Phe	His	Ala	Leu				
						195	200	205								

<210> 1207  
<211> 117  
<212>Amino acid  
<213> Homo sapiens

<400> 1207																
Arg	Thr	Arg	Gly	Gly	Ala	Val	Ser	Phe	Glu	Asp	Phe	Ile	Lys	Gly	Leu	
1									5	10	15					
Ser	Ile	Leu	Leu	Arg	Gly	Thr	Val	Gln	Glu	Lys	Leu	Asn	Trp	Ala	Phe	
						20	25	30								
Asn	Leu	Tyr	Asp	Ile	Asn	Lys	Asp	Gly	Tyr	Ile	Thr	Lys	Glu	Glu	Met	
						35	40	45								
Leu	Asp	Ile	Met	Lys	Ala	Ile	Tyr	Asp	Met	Met	Gly	Lys	Cys	Thr	Tyr	
						50	55	60								
Pro	Val	Leu	Lys	Glu	Asp	Ala	Pro	Arg	Gln	His	Val	Glu	Thr	Phe	Phe	

65	70	75	80												
Gln	Lys	Met	Asp	Lys	Asn	Lys	Asp	Gly	Val	Val	Thr	Ile	Asp	Glu	Phe
				85		90								95	
Ile	Glu	Ser	Cys	Gln	Lys	Asp	Glu	Asn	Ile	Met	Arg	Ser	Met	Gln	Leu
				100		105									110
Phe	Glu	Asn	Val	Ile											
				115		117									

<210> 1208  
<211> 337  
<212>Amino acid  
<213> Homo sapiens

<400> 1208															
Pro	Arg	Ser	Pro	Glu	His	His	Thr	Pro	Ala	Trp	His	Glu	Gly	Arg	Ser
1				5				10				15			
Leu	Gly	Pro	Ile	Met	Ala	Ser	Met	Ala	Asp	Arg	Asn	Met	Lys	Leu	Phe
				20				25				30			
Ser	Gly	Arg	Val	Val	Pro	Ala	Gln	Gly	Glu	Glu	Thr	Phe	Glu	Asn	Trp
				35				40				45			
Leu	Thr	Gln	Val	Asn	Gly	Val	Leu	Pro	Asp	Trp	Asn	Met	Ser	Glu	Glu
				50				55				60			
Glu	Lys	Leu	Lys	Arg	Leu	Met	Lys	Thr	Leu	Arg	Gly	Pro	Ala	Arg	Glu
				65			70			75			80		
Val	Met	Arg	Val	Leu	Gln	Ala	Thr	Asn	Pro	Asn	Leu	Ser	Val	Ala	Asp
				85				90				95			
Phe	Leu	Arg	Ala	Met	Lys	Leu	Val	Phe	Gly	Glu	Ser	Glu	Ser	Ser	Val
				100				105				110			
Thr	Ala	His	Gly	Lys	Phe	Phe	Asn	Thr	Leu	Gln	Ala	Gln	Gly	Glu	Lys
					115			120				125			
Ala	Ser	Leu	Tyr	Val	Ile	Arg	Leu	Glu	Val	Gln	Leu	Gln	Asn	Ala	Ile
				130			135			140					
Gln	Ala	Gly	Ile	Ile	Ala	Glu	Lys	Asp	Ala	Asn	Arg	Thr	Arg	Leu	Gln
				145			150			155				160	
Gln	Leu	Leu	Leu	Gly	Gly	Glu	Leu	Ser	Arg	Asp	Leu	Arg	Leu		
				165			170			175					
Lys	Asp	Phe	Leu	Arg	Met	Tyr	Ala	Asn	Glu	Gln	Glu	Arg	Leu	Pro	Asn
				180			185			190					
Phe	Leu	Glu	Leu	Ile	Lys	Met	Val	Arg	Glu	Glu	Glu	Asp	Trp	Asp	Asp
				195			200			205					
Ala	Phe	Ile	Lys	Arg	Lys	Arg	Pro	Lys	Arg	Ser	Glu	Ser	Met	Val	Glu
				210			215			220					
Arg	Ala	Val	Ser	Pro	Val	Ala	Phe	Gln	Gly	Ser	Pro	Pro	Ile	Val	Ile
					225			230			235			240	
Gly	Ser	Ala	Asp	Cys	Asn	Val	Ile	Glu	Ile	Asp	Asp	Thr	Leu	Asp	Asp
					245			250			255				
Ser	Asp	Glu	Asp	Val	Ile	Leu	Val	Glu	Ser	Gln	Asp	Pro	Pro	Leu	Pro
					260			265			270				
Ser	Trp	Gly	Ala	Pro	Pro	Leu	Arg	Asp	Arg	Ala	Arg	Pro	Gln	Asp	Glu
					275			280			285				
Val	Leu	Val	Ile	Asp	Ser	Pro	His	Asn	Ser	Arg	Ala	Gln	Phe	Pro	Ser
				290			295			300					
Thr	Ser	Gly	Gly	Ser	Gly	Tyr	Lys	Asn	Asn	Gly	Pro	Gly	Glu	Met	Arg
				305			310			315			320		
Arg	Ala	Arg	Lys	Arg	Lys	His	Thr	Ile	Arg	Cys	Ser	Tyr	Cys	Gly	Glu
					325			330			335				
Glu					337										

<210> 1209  
<211> 64  
<212>Amino acid  
<213> Homo sapiens

<400> 1209  
Ser Val Ala Cys Thr Val Pro Leu Arg Ser Met Ser Asp Pro Asp Gln  
1 5 10 15  
Asp Phe Asp Lys Glu Pro Asp Ser Asp Ser Thr Lys His Ser Thr Pro  
20 25 30  
Ser Asn Ser Ser Asn Pro Ser Gly Pro Pro Ser Pro Asn Ser Pro His  
35 40 45  
Arg Ser Gln Leu Pro Leu Glu Gly Leu Glu Gln Pro Ala Cys Asp Thr  
50 55 60 64

<210> 1210  
<211> 316  
<212>Amino acid  
<213> Homo sapiens

<400> 1210  
Tyr Ser Ala Val Glu Phe Ala Glu Arg Gly Ser Gly Gly Ser Ser Gly  
1 5 10 15  
Asp Glu Leu Arg Glu Asp Asp Glu Pro Val Lys Lys Arg Gly Arg Lys  
20 25 30  
Gly Arg Gly Arg Gly Pro Pro Ser Ser Asp Ser Glu Pro Glu Ala  
35 40 45  
Glu Leu Glu Arg Glu Ala Lys Lys Ser Ala Lys Lys Pro Gln Ser Ser  
50 55 60  
Ser Thr Glu Pro Ala Arg Lys Pro Gly Gln Lys Glu Lys Arg Val Arg  
65 70 75 80  
Pro Glu Glu Lys Gln Gln Ala Lys Pro Val Lys Val Glu Arg Thr Arg  
85 90 95  
Lys Arg Ser Glu Gly Phe Ser Met Asp Arg Lys Val Glu Lys Lys Lys  
100 105 110  
Glu Pro Ser Val Glu Glu Lys Leu Gln Lys Leu His Ser Glu Ile Lys  
115 120 125  
Phe Ala Leu Lys Val Asp Ser Pro Asp Val Lys Arg Cys Leu Asn Ala  
130 135 140  
Leu Glu Glu Leu Gly Thr Leu Gln Val Thr Ser Gln Ile Leu Gln Lys  
145 150 155 160  
Asn Thr Asp Val Val Ala Thr Leu Lys Lys Ile Arg Arg Tyr Lys Ala  
165 170 175  
Asn Lys Asp Val Met Glu Lys Ala Ala Glu Val Tyr Thr Arg Leu Lys  
180 185 190  
Ser Arg Val Leu Gly Pro Lys Ile Glu Ala Val Gln Lys Val Asn Lys  
195 200 205  
Ala Gly Met Glu Lys Glu Lys Ala Glu Glu Lys Leu Ala Gly Glu Glu  
210 215 220  
Leu Ala Gly Glu Glu Ala Pro Gln Glu Lys Ala Glu Asp Lys Pro Ser  
225 230 235 240  
Thr Asp Leu Ser Ala Pro Val Asn Gly Glu Ala Thr Ser Gln Lys Gly

245		250		255
Glu Ser Ala Glu Asp Lys Glu His Glu Glu Gly Arg Asp Ser Glu Glu				
260		265		270
Gly Pro Arg Cys Gly Ser Ser Glu Asp Leu His Asp Ser Val Arg Glu				
275		280		285
Gly Pro Asp Leu Asp Arg Pro Gly Ser Asp Arg Gln Glu Arg Glu Arg				
290		295		300
Ala Arg Gly Asp Ser Glu Ala Leu Asp Glu Glu Ser				
305		310		315 316

<210> 1211  
<211> 767  
<212>Amino acid  
<213> Homo sapiens

<400> 1211				
Leu Ala Glu Leu Ser Ser Leu Ser Val Leu Arg Leu Ser His Asn Ser				
1	5	10	15	
Ile Ser His Ile Ala Glu Gly Ala Phe Lys Gly Leu Arg Ser Leu Arg				
20	25	30		
Val Leu Asp Leu Asp His Asn Glu Ile Ser Gly Thr Ile Glu Asp Thr				
35	40	45		
Ser Gly Ala Phe Ser Gly Leu Asp Ser Leu Ser Lys Leu Thr Leu Phe				
50	55	60		
Gly Asn Lys Ile Lys Ser Val Ala Lys Arg Ala Phe Ser Gly Leu Glu				
65	70	75	80	
Gly Leu Glu His Leu Asn Leu Gly Gly Asn Ala Ile Arg Ser Val Gln				
85	90	95		
Phe Asp Ala Phe Val Lys Met Lys Asn Leu Lys Glu Leu His Ile Ser				
100	105	110		
Ser Asp Ser Phe Leu Cys Asp Cys Gln Leu Lys Trp Leu Pro Pro Trp				
115	120	125		
Leu Ile Gly Arg Met Leu Gln Ala Phe Val Thr Ala Thr Cys Ala His				
130	135	140		
Pro Glu Ser Leu Lys Gly Gln Ser Ile Phe Ser Val Pro Pro Glu Ser				
145	150	155	160	
Phe Val Cys Asp Asp Phe Leu Lys Pro Gln Ile Ile Thr Gln Pro Glu				
165	170	175		
Thr Thr Met Ala Met Val Gly Lys Asp Ile Arg Phe Thr Cys Ser Ala				
180	185	190		
Ala Ser Ser Ser Ser Pro Met Thr Phe Ala Trp Lys Lys Asp Asn				
195	200	205		
Glu Val Leu Thr Asn Ala Asp Met Glu Asn Phe Val His Val His Ala				
210	215	220		
Gln Asp Gly Glu Val Met Glu Tyr Thr Ile Leu His Leu Arg Gln				
225	230	235	240	
Val Thr Phe Gly His Glu Gly Arg Tyr Gln Cys Val Ile Thr Asn His				
245	250	255		
Phe Gly Ser Thr Tyr Ser His Lys Ala Arg Leu Thr Val Asn Val Leu				
260	265	270		
Pro Ser Phe Thr Lys Thr Pro His Asp Ile Thr Ile Arg Thr Thr Thr				
275	280	285		
Met Ala Arg Leu Glu Cys Ala Ala Thr Gly His Pro Asn Pro Gln Ile				
290	295	300		
Ala Trp Gln Lys Asp Gly Gly Thr Asp Phe Pro Ala Ala Arg Glu Arg				
305	310	315	320	
Arg Met His Val Met Pro Asp Asp Asp Val Phe Phe Ile Thr Asp Val				
325	330	335		
Lys Ile Asp Asp Ala Gly Val Tyr Ser Cys Thr Ala Gln Asn Ser Ala				

Gly	Ser	Ile	Ser	Ala	Asn	Ala	Thr	Leu	Thr	Val	Leu	Glu	Thr	Pro	Ser
340															
355								360				365			
Leu	Val	Val	Pro	Leu	Glu	Asp	Arg	Val	Val	Ser	Val	Gly	Glu	Thr	Val
370								375				380			
Ala	Leu	Gln	Cys	Lys	Ala	Thr	Gly	Asn	Pro	Pro	Arg	Ile	Thr	Trp	
385												395			400
Phe	Lys	Gly	Asp	Arg	Pro	Leu	Ser	Leu	Thr	Glu	Arg	His	His	Leu	Thr
												405	410	415	
Pro	Asp	Asn	Gln	Leu	Leu	Val	Val	Gln	Asn	Val	Val	Ala	Glu	Asp	Ala
												420	425	430	
Gly	Arg	Tyr	Thr	Cys	Glu	Met	Ser	Asn	Thr	Leu	Gly	Thr	Glu	Arg	Ala
												425	440	445	
His	Ser	Gln	Leu	Ser	Val	Leu	Pro	Ala	Ala	Gly	Cys	Arg	Lys	Asp	Gly
												450	455	460	
Thr	Thr	Val	Gly	Ile	Phe	Thr	Ile	Ala	Val	Val	Ser	Ser	Ile	Val	Leu
465												470	475	480	
Thr	Ser	Leu	Val	Trp	Val	Cys	Ile	Ile	Tyr	Gln	Thr	Arg	Lys	Lys	Ser
												485	490	495	
Glu	Glu	Tyr	Ser	Val	Thr	Asn	Thr	Asp	Glu	Thr	Val	Val	Pro	Pro	Asp
												500	505	510	
Val	Pro	Ser	Tyr	Leu	Ser	Ser	Gln	Gly	Thr	Leu	Ser	Asp	Arg	Gln	Glu
												515	520	525	
Thr	Val	Val	Arg	Thr	Glu	Gly	Gly	Pro	Gln	Ala	Asn	Gly	His	Ile	Glu
												530	535	540	
Ser	Asn	Gly	Val	Cys	Pro	Arg	Asp	Ala	Ser	His	Phe	Pro	Glu	Pro	Asp
												545	550	555	560
Thr	His	Ser	Val	Ala	Cys	Arg	Gln	Pro	Lys	Leu	Cys	Ala	Gly	Ser	Ala
												565	570	575	
Tyr	His	Lys	Lys	Pro	Trp	Lys	Ala	Met	Glu	Lys	Ala	Glu	Gly	Thr	Pro
												580	585	590	
Gly	Pro	His	Lys	Met	Glu	His	Gly	Gly	Arg	Val	Val	Cys	Ser	Asp	Cys
												595	600	605	
Asn	Thr	Glu	Val	Asp	Cys	Tyr	Ser	Arg	Gly	Gln	Ala	Phe	His	Pro	Gln
												610	615	620	
Pro	Val	Ser	Arg	Asp	Ser	Ala	Gln	Pro	Ser	Ala	Pro	Asn	Gly	Pro	Glu
												625	630	635	640
Pro	Gly	Gly	Ser	Asp	Gln	Glu	His	Ser	Pro	His	His	Gln	Cys	Ser	Arg
												645	650	655	
Thr	Ala	Ala	Gly	Ser	Cys	Pro	Glu	Cys	Gln	Gly	Ser	Leu	Tyr	Pro	Ser
												660	665	670	
Asn	His	Asp	Arg	Met	Leu	Thr	Ala	Val	Lys	Lys	Pro	Met	Ala	Ser	
												675	680	685	
Leu	Asp	Gly	Lys	Gly	Asp	Ser	Ser	Trp	Thr	Leu	Ala	Arg	Leu	Tyr	His
												690	695	700	
Pro	Asp	Ser	Thr	Glu	Leu	Gln	Pro	Ala	Ser	Ser	Leu	Thr	Ser	Gly	Ser
												705	710	715	720
Pro	Glu	Arg	Ala	Glu	Ala	Gln	Tyr	Leu	Leu	Val	Ser	Asn	Gly	His	Leu
												725	730	735	
Pro	Lys	Ala	Cys	Asp	Ala	Ser	Pro	Glu	Ser	Thr	Pro	Leu	Thr	Gly	Gln
												740	745	750	
Leu	Pro	Gly	Lys	Gln	Arg	Val	Pro	Leu	Leu	Leu	Ala	Pro	Lys	Ser	
												755	760	765	767

<210> 1212  
<211> 821  
<212>Amino acid  
<213> Homo sapiens

<400> 1212  
 Ala Ala Ala Gly Ala Ala Arg Arg Val Ser Val Arg Cys Gly Arg Ser  
 1 5 10 15  
 Gly Pro Gly Pro Gly Arg Gly Ala Ala Gly Leu Ser Pro Ala Asp Ile  
 20 25 30  
 Ala Leu Ala Ser Glu Gln Gly Ala Ser Cys Ser Val Arg Ala Pro Glu  
 35 40 45  
 Arg Lys Leu Arg Met Lys Leu Leu Trp Gln Ala Lys Met Ser Ser Ile  
 50 55 60  
 Gln Asp Trp Gly Glu Glu Val Glu Glu Gly Ala Val Tyr His Val Thr  
 65 70 75 80  
 Leu Lys Arg Val Gln Ile Gln Gln Ala Ala Asn Lys Gly Ala Arg Trp  
 85 90 95  
 Leu Gly Val Glu Gly Asp Gln Leu Pro Pro Gly His Thr Val Ser Gln  
 100 105 110  
 Tyr Glu Thr Cys Lys Ile Arg Thr Ile Lys Ala Gly Thr Leu Glu Lys  
 115 120 125  
 Leu Val Glu Asn Leu Leu Thr Ala Phe Gly Asp Asn Asp Phe Thr Tyr  
 130 135 140  
 Ile Ser Ile Phe Leu Ser Thr Tyr Arg Gly Phe Ala Ser Thr Lys Glu  
 145 150 155 160  
 Val Leu Glu Leu Leu Leu Asp Arg Tyr Gly Asn Leu Thr Ser Pro Asn  
 165 170 175  
 Cys Glu Glu Asp Gly Ser Gln Ser Ser Ser Glu Ser Lys Met Val Ile  
 180 185 190  
 Arg Asn Ala Ile Ala Ser Ile Leu Arg Ala Trp Leu Asp Gln Cys Ala  
 195 200 205  
 Glu Asp Phe Arg Glu Pro Pro His Phe Pro Cys Leu Gln Lys Leu Leu  
 210 215 220  
 Asp Tyr Leu Thr Arg Met Met Pro Gly Ser Asp Pro Glu Arg Arg Ala  
 225 230 235 240  
 Gln Asn Leu Leu Glu Gln Phe Gln Lys Gln Glu Val Glu Thr Asp Asn  
 245 250 255  
 Gly Leu Pro Asn Thr Ile Ser Phe Ser Leu Glu Glu Glu Glu Leu  
 260 265 270  
 Glu Gly Glu Ser Ala Glu Phe Thr Cys Phe Ser Glu Asp Leu Val  
 275 280 285  
 Ala Glu Gln Leu Thr Tyr Met Asp Ala Gln Leu Phe Lys Lys Val Val  
 290 295 300  
 Pro His His Cys Leu Gly Cys Ile Trp Ser Arg Arg Asp Lys Lys Glu  
 305 310 315 320  
 Asn Lys His Leu Ala Pro Thr Ile Arg Ala Thr Ile Ser Gln Phe Asn  
 325 330 335  
 Thr Leu Thr Lys Cys Val Val Ser Thr Ile Leu Gly Gly Lys Glu Leu  
 340 345 350  
 Lys Thr Gln Gln Arg Ala Lys Ile Ile Glu Lys Trp Ile Asn Ile Ala  
 355 360 365  
 His Glu Cys Arg Leu Leu Lys Asn Phe Ser Ser Leu Arg Ala Ile Val  
 370 375 380  
 Ser Ala Leu Gln Ser Ser Ile Tyr Arg Leu Lys Lys Thr Trp Ala  
 385 390 395 400  
 Ala Val Pro Arg Asp Arg Met Leu Met Phe Glu Glu Leu Ser Asp Ile  
 405 410 415  
 Phe Ser Asp His Asn Asn His Leu Thr Ser Arg Glu Leu Leu Met Lys  
 420 425 430  
 Glu Gly Thr Ser Lys Phe Ala Asn Leu Asp Ser Ser Val Lys Glu Asn  
 435 440 445  
 Gln Lys Arg Thr Gln Arg Arg Leu Gln Leu Gln Lys Asp Met Gly Val  
 450 455 460  
 Met Gln Gly Thr Val Pro Tyr Leu Gly Thr Phe Leu Thr Asp Leu Thr  
 465 470 475 480  
 Met Leu Asp Thr Ala Leu Gln Asp Tyr Ile Glu Gly Gly Leu Ile Asn  
 485 490 495  
 Phe Glu Lys Arg Arg Glu Phe Glu Val Ile Ala Gln Ile Lys Leu

500	505	510
Leu Gln Ser Ala Cys Asn Ser Tyr Cys Met Thr Pro Asp Gln Lys Phe		
515	520	525
Ile Gln Trp Phe Gln Arg Gln Gln Leu Leu Thr Glu Glu Glu Ser Tyr		
530	535	540
Ala Leu Ser Cys Glu Ile Glu Ala Ala Ala Asp Ala Ser Thr Thr Ser		
545	550	555
Pro Lys Pro Trp Lys Ser Met Val Lys Arg Leu Asn Leu Leu Phe Leu		560
555	570	575
Gly Ala Asp Met Ile Thr Ser Pro Thr Pro Thr Lys Glu Gln Pro Lys		
580	585	590
Ser Thr Ala Ser Gly Ser Ser Gly Glu Ser Met Asp Ser Val Ser Val		
595	600	605
Ser Ser Cys Glu Ser Asn His Ser Glu Ala Glu Glu Gly Tyr Ile Thr		
610	615	620
Pro Met Asp Thr Pro Asp Glu Pro Gln Lys Lys Leu Ser Glu Ser Ser		
625	630	635
Ser Tyr Cys Ser Ser His Ser Met Asp Thr Asn Phe Leu Gln Gly		640
645	650	655
Met Ser Ser Leu Ile Asn Pro Leu Ser Ser Pro Pro Ser Cys Asn Asn		
660	665	670
Asn Pro Lys Ile His Lys Arg Ser Val Ser Val Thr Ser Ile Thr Ser		
675	680	685
Thr Val Leu Pro Pro Val Tyr Asn Gln Gln Asn Glu Asp Thr Cys Ile		
690	695	700
Ile Arg Ile Ser Val Glu Asp Asn Asn Gly Asn Met Tyr Lys Ser Ile		
705	710	715
Met Leu Thr Ser Gln Asp Lys Thr Pro Ala Val Ile Gln Arg Ala Met		
725	730	735
Leu Lys His Asn Leu Asp Ser Asp Pro Ala Glu Glu Tyr Glu Leu Val		
740	745	750
Gln Val Ile Ser Glu Asp Lys Glu Leu Val Ile Pro Asp Ser Ala Asn		
755	760	765
Val Phe Tyr Ala Met Asn Ser Gln Val Asn Phe Asp Phe Ile Leu Arg		
770	775	780
Lys Lys Asn Ser Met Glu Glu Gln Val Lys Leu Arg Ser Arg'Thr Ser		
785	790	795
Leu Thr Leu Pro Arg Thr Ala Lys Arg Gly Cys Trp Ser Asn Arg His		800
805	810	815
Ser Lys Ile Thr Leu		
820	821	

<210> 1213  
 <211> 289  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1213			
Ala Arg Glu Lys Met Asp Ser Cys Ile Glu Ala Phe Gly Thr Thr Lys			
1	5	10	15
Gln Lys Arg Ala Leu Asn Thr Arg Arg Met Asn Arg Val Gly Asn Glu			
20	25	30	
Ser Leu Asn Arg Ala Val Ala Lys Ala Ala Glu Thr Ile Asp Thr			
35	40	45	
Lys Gly Val Thr Ala Leu Val Ser Asp Ala Ile His Asn Asp Leu Gln			
50	55	60	
Asp Asp Ser Leu Tyr Leu Pro Pro Cys Tyr Asp Asp Ala Ala Lys Pro			
65	70	75	80
Glu Asp Val Tyr Lys Phe Glu Asp Leu Leu Ser Pro Ala Glu Tyr Glu			

	85	90	95
Ala Leu Gln Ser Pro Ser Glu Ala Phe Arg Asn Val Thr Ser Glu Glu			
100	105	110	
Ile Leu Lys Met Ile Glu Glu Asn Ser His Cys Thr Phe Val Ile Glu			
115	120	125	
Ala Leu Lys Ser Leu Pro Ser Asp Val Glu Ser Arg Asp Arg Gln Ala			
130	135	140	
Arg Cys Ile Trp Phe Leu Asp Thr Leu Ile Lys Phe Arg Ala His Arg			
145	150	155	160
Val Val Lys Arg Lys Ser Ala Leu Gly Pro Gly Val Pro His Ile Ile			
165	170	175	
Asn Thr Lys Leu Lys His Phe Thr Cys Leu Thr Tyr Asn Asn Gly			
180	185	190	
Arg Leu Arg Asn Leu Ile Ser Asp Ser Met Lys Ala Lys Ile Thr Ala			
195	200	205	
Tyr Val Ile Ile Leu Ala Leu His Ile His Asp Phe Gln Ile Asp Leu			
210	215	220	
Thr Val Leu Gln Arg Asp Leu Lys Leu Ser Glu Lys Arg Met Met Glu			
225	230	235	240
Ile Ala Lys Ala Met Arg Leu Lys Ile Ser Lys Arg Arg Val Ser Val			
245	250	255	
Ala Ala Gly Ser Glu Glu Asp His Lys Leu Gly Thr Leu Ser Leu Pro			
260	265	270	
Leu Pro Pro Ala Gln Thr Ser Asp Arg Leu Ala Lys Arg Arg Lys Ile			
275	280	285	
Thr			
289			

<210> 1214  
 <211> 873  
 <212>Amino acid  
 <213> Homo sapiens

	<400> 1214		
Leu Ser Leu Phe Gly Ser Arg Ala Leu Gly Arg Ser Gly Ala Arg Ala			
1	5	10	15
Met Ala Lys Ala Lys Lys Val Gly Ala Arg Arg Lys Ala Ser Gly Ala			
20	25	30	
Pro Ala Gly Ala Arg Gly Gly Pro Ala Lys Ala Asn Ser Asn Pro Phe			
35	40	45	
Glu Val Lys Val Asn Arg Gln Lys Phe Gln Ile Leu Gly Arg Lys Thr			
50	55	60	
Arg His Asp Val Gly Leu Pro Gly Val Ser Arg Ala Arg Ala Leu Arg			
65	70	75	80
Lys Arg Thr Gln Thr Leu Leu Lys Glu Tyr Lys Glu Arg Asp Lys Ser			
85	90	95	
Asn Val Phe Arg Asp Lys Arg Phe Gly Glu Tyr Asn Ser Asn Met Ser			
100	105	110	
Pro Glu Glu Lys Met Met Lys Arg Phe Ala Leu Glu Gln Gln Arg His			
115	120	125	
His Glu Lys Lys Ser Ile Tyr Asn Leu Asn Glu Asp Glu Glu Leu Thr			
130	135	140	
His Tyr Gly Gln Ser Leu Ala Asp Ile Glu Lys His Asn Asp Ile Val			
145	150	155	160
Asp Ser Asp Ser Asp Ala Glu Asp Arg Gly Thr Leu Ser Gly Glu Leu			
165	170	175	
Thr Ala Ala His Phe Gly Gly Gly Leu Leu His Lys Lys Thr			
180	185	190	
Gln Gln Glu Gly Glu Glu Arg Glu Lys Pro Lys Ser Arg Lys Glu Leu			

195	200	205
Ile Glu Glu Leu Ile Ala Lys Ser Lys Gln Glu Lys Arg Glu Arg Gln		
210	215	220
Ala Gln Arg Glu Asp Ala Leu Glu Leu Thr Glu Lys Leu Asp Gln Asp		
225	230	235
Trp Lys Glu Ile Gln Thr Leu Leu Ser His Lys Thr Pro Lys Ser Glu		
245	250	255
Asn Arg Asp Lys Lys Glu Lys Pro Lys Pro Asp Ala Tyr Asp Met Met		
260	265	270
Val Arg Glu Leu Gly Phe Glu Met Lys Ala Gln Pro Ser Asn Arg Met		
275	280	285
Lys Thr Glu Ala Glu Leu Ala Lys Glu Glu Gln Glu His Leu Arg Lys		
290	295	300
Leu Glu Ala Glu Arg Leu Arg Arg Met Leu Gly Lys Asp Glu Asp Glu		
305	310	315
Asn Val Lys Lys Pro Lys His Met Ser Ala Asp Asp Asp Leu Asn Asp Gly		
325	330	335
Phe Val Leu Asp Lys Asp Asp Arg Arg Leu Leu Ser Tyr Lys Asp Gly		
340	345	350
Lys Met Asn Val Glu Glu Asp Val Gln Glu Glu Gln Ser Lys Glu Ala		
355	360	365
Ser Asp Pro Glu Ser Asn Glu Glu Glu Gly Asp Ser Ser Gly Gly Glu		
370	375	380
Asp Thr Glu Glu Ser Asp Ser Pro Asp Ser His Leu Asp Leu Glu Ser		
385	390	395
Asn Val Glu Ser Glu Glu Asn Glu Lys Pro Ala Lys Glu Gln Arg		
405	410	415
Gln Thr Pro Gly Lys Gly Leu Ile Ser Gly Lys Glu Arg Ala Gly Lys		
420	425	430
Ala Thr Arg Asp Glu Leu Pro Tyr Thr Phe Ala Ala Pro Glu Ser Tyr		
435	440	445
Glu Glu Leu Arg Ser Leu Leu Leu Gly Arg Ser Met Glu Glu Gln Leu		
450	455	460
Leu Val Val Glu Arg Ile Gln Lys Cys Asn His Pro Ser Leu Ala Glu		
465	470	475
Gly Asn Lys Ala Lys Leu Glu Lys Leu Phe Gly Phe Leu Leu Glu Tyr		
485	490	495
Val Gly Asp Leu Ala Thr Asp Asp Pro Pro Asp Leu Thr Val Ile Asp		
500	505	510
Lys Leu Val Val His Leu Tyr His Leu Cys Gln Met Phe Pro Glu Ser		
515	520	525
Ala Ser Asp Ala Ile Lys Phe Val Leu Arg Asp Ala Met His Glu Met		
530	535	540
Glu Glu Met Ile Glu Thr Lys Gly Arg Ala Ala Leu Pro Gly Leu Asp		
545	550	555
Val Leu Ile Tyr Leu Lys Ile Thr Gly Leu Leu Phe Pro Thr Ser Asp		
565	570	575
Phe Trp His Pro Val Val Thr Pro Ala Leu Val Cys Leu Ser Gln Leu		
580	585	590
Leu Thr Lys Cys Pro Ile Leu Ser Leu Gln Asp Val Val Lys Gly Leu		
595	600	605
Phe Val Cys Cys Leu Phe Leu Glu Tyr Val Ala Leu Ser Gln Arg Phe		
610	615	620
Ile Pro Glu Leu Ile Asn Phe Leu Leu Gly Ile Leu Tyr Ile Ala Thr		
625	630	635
Pro Asn Lys Ala Ser Gln Gly Ser Thr Leu Val His Pro Phe Arg Ala		
645	650	655
Leu Gly Lys Asn Ser Glu Leu Leu Val Val Ser Ala Arg Glu Asp Val		
660	665	670
Ala Thr Trp Gln Gln Ser Ser Leu Ser Leu Arg Trp Ala Ser Arg Leu		
675	680	685
Arg Ala Pro Thr Ser Thr Glu Ala Asn His Ile Arg Leu Ser Cys Leu		
690	695	700
Ala Val Gly Leu Ala Leu Leu Lys Arg Cys Val Leu Met Tyr Gly Ser		

705	710	715	720
Leu Pro Ser Phe His Ala Ile Met Gly Pro Leu Arg Ala Leu Leu Thr			
725	730	735	
Asp His Leu Ala Asp Cys Ser His Pro Gln Glu Leu Gln Glu Leu Cys			
740	745	750	
Gln Ser Thr Leu Thr Glu Met Glu Ser Gln Lys Gln Leu Cys Arg Pro			
755	760	765	
Leu Thr Cys Glu Lys Ser Lys Pro Val Pro Leu Lys Leu Phe Thr Pro			
770	775	780	
Arg Leu Val Lys Val Leu Glu Phe Gly Arg Lys Gln Gly Ser Ser Lys			
785	790	795	800
Glu Glu Gln Glu Arg Lys Arg Leu Ile His His Lys Arg Glu Phe			
805	810	815	
Lys Gly Ala Val Arg Glu Ile Arg Lys Asp Asn Gln Phe Leu Ala Arg			
820	825	830	
Met Gln Leu Ser Glu Ile Met Glu Arg Asp Ala Glu Arg Lys Arg Lys			
835	840	845	
Val Lys Gln Leu Phe Asn Ser Leu Ala Thr Gln Glu Gly Glu Trp Lys			
850	855	860	
Ala Leu Lys Arg Lys Lys Phe Lys Lys			
865	870	873	

<210> 1215  
 <211> 319  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1215			
Leu Thr Lys Gln Glu Asp Cys Cys Gly Ser Ile Gly Thr Ala Trp Gly			
1	5	10	15
Gln Ser Lys Cys His Lys Cys Pro Gln Leu Gln Tyr Thr Gly Val Gln			
20	25	30	
Lys Pro Gly Pro Val Arg Gly Glu Val Gly Ala Asp Cys Pro Gln Gly			
35	40	45	
Tyr Lys Arg Leu Asn Ser Thr His Cys Gln Asp Ile Asn Glu Cys Ala			
50	55	60	
Met Pro Gly Val Cys Arg His Gly Asp Cys Leu Asn Asn Pro Gly Ser			
65	70	75	80
Tyr Arg Cys Val Cys Pro Pro Gly His Ser Leu Gly Pro Ser Arg Thr			
85	90	95	
Gln Cys Ile Ala Asp Lys Pro Glu Glu Lys Ser Leu Cys Phe Arg Leu			
100	105	110	
Val Ser Pro Glu His Gln Cys Gln His Pro Leu Thr Thr Arg Leu Thr			
115	120	125	
Arg Gln Leu Cys Cys Cys Ser Val Gly Lys Ala Trp Gly Ala Arg Cys			
130	135	140	
Gln Arg Cys Pro Thr Asp Gly Thr Ala Ala Phe Lys Glu Ile Cys Pro			
145	150	155	160
Ala Gly Lys Gly Tyr His Ile Leu Thr Ser His Gln Thr Leu Thr Ile			
165	170	175	
Gln Gly Glu Ser Asp Phe Ser Leu Phe Leu His Pro Asp Gly Pro Pro			
180	185	190	
Lys Pro Gln Gln Leu Pro Glu Ser Pro Ser Gln Ala Pro Pro Pro Glu			
195	200	205	
Asp Thr Glu Glu Glu Arg Gly Val Thr Thr Asp Ser Pro Val Ser Glu			
210	215	220	
Glu Arg Ser Val Gln Gln Ser His Pro Thr Ala Thr Thr Pro Ala			
225	230	235	240
Arg Pro Tyr Pro Glu Leu Ile Ser Arg Pro Ser Pro Pro Thr Met Arg			

245	250	255
Trp Phe Leu Pro Asp Leu Pro Pro Ser Arg Ser Ala Val	Glu Ile Ala	
260	265	270
Pro Thr Gln Val Thr Glu Thr Asp Glu Cys Arg Leu Asn Gln Asn Ile		
275	280	285
Cys Gly His Gly Glu Cys Val Pro Gly Pro Pro Asp Tyr Ser Cys His		
290	295	300
Cys Asn Pro Gly Tyr Arg Ser His Pro Gln His Arg Tyr Cys Val		
305	310	315 319

<210> 1216  
<211> 815  
<212>Amino acid  
<213> Homo sapiens

<400> 1216	1216	
Met Ala Gly Gly His Cys Gly Ser Phe Pro Ala Ala Ala Ala Gly Ser		
1	5	10 15
Gly Glu Ile Val Gln Leu Asn Val Gly Gly Thr Arg Phe Ser Thr Ser		
20	25	30
Arg Gln Thr Leu Met Trp Ile Pro Asp Ser Phe Phe Ser Ser Leu Leu		
35	40	45
Ser Gly Arg Ile Ser Thr Leu Arg Asp Glu Thr Gly Ala Ile Phe Ile		
50	55	60
Asp Arg Asp Pro Ala Ala Phe Ala Pro Ile Leu Asn Phe Leu Arg Thr		
65	70	75 80
Lys Glu Leu Asp Leu Arg Gly Val Ser Ile Asn Val Leu Arg His Glu		
85	90	95
Ala Glu Phe Tyr Gly Ile Thr Pro Leu Val Arg Arg Leu Leu Leu Cys		
100	105	110
Glu Glu Leu Glu Arg Ser Ser Cys Gly Ser Val Leu Phe His Gly Tyr		
115	120	125
Leu Pro Pro Pro Gly Ile Pro Ser Arg Lys Ile Asn Asn Thr Val Arg		
130	135	140
Ser Ala Asp Ser Arg Asn Gly Leu Asn Ser Thr Glu Gly Glu Ala Arg		
145	150	155 160
Gly Asn Gly Thr Gln Pro Val Leu Ser Gly Thr Gly Glu Glu Thr Val		
165	170	175
Arg Leu Gly Phe Pro Val Asp Pro Arg Lys Val Leu Ile Val Ala Gly		
180	185	190
His His Asn Trp Ile Val Ala Ala Tyr Ala His Phe Ala Val Trp Tyr		
195	200	205
Arg Ile Lys Glu Ser Ser Gly Trp Gln Gln Val Phe Thr Ser Pro Tyr		
210	215	220
Leu Asp Trp Thr Ile Glu Arg Val Ala Leu Asn Ala Lys Val Val Gly		
225	230	235 240
Gly Pro His Gly Asp Lys Asp Lys Met Val Ala Val Ala Ser Glu Ser		
245	250	255
Ser Ile Ile Leu Trp Ser Val Gln Asp Gly Gly Ser Gly Ser Glu Ile		
260	265	270
Gly Val Phe Ser Leu Gly Val Pro Val Asp Ala Leu Phe Phe Ile Gly		
275	280	285
Asn Gln Leu Val Ala Thr Ser His Thr Gly Lys Val Gly Val Trp Asn		
290	295	300
Ala Val Thr Gln His Trp Gln Val Gln Asp Val Val Pro Ile Thr Ser		
305	310	315 320
Tyr Asp Thr Ala Gly Ser Phe Leu Leu Leu Gly Cys Asn Asn Gly Ser		
325	330	335
Ile Tyr Tyr Ile Asp Met Gln Lys Phe Pro Leu Arg Met Lys Asp Asn		

	340	345	350
Asp Leu Leu Val Thr Glu Leu Tyr His Asp Pro Ser Asn Asp Ala Ile	355	360	365
Thr Ala Leu Ser Val Tyr Leu Thr Pro Lys Thr Ser Val Ser Gly Asn	370	375	380
Trp Ile Glu Ile Ala Tyr Gly Thr Ser Ser Gly Ala Val Arg Val Ile	385	390	395
Val Gln His Pro Glu Thr Val Gly Ser Gly Pro Gln Leu Phe Gln Thr	400	405	410
Phe Thr Val His Arg Ser Pro Val Thr Lys Ile Met Leu Ser Glu Lys	415	420	425
His Leu Val Ser Val Cys Ala Asp Asn Asn His Val Arg Thr Trp Thr	430	435	445
Val Thr Arg Phe Arg Gly Met Ile Ser Thr Gln Pro Gly Ser Thr Pro	450	455	460
Leu Ala Ser Phe Lys Ile Leu Ser Leu Glu Glu Ser His Gly	465	470	475
Ser Tyr Ser Ser Gly Asn Asp Ile Gly Pro Phe Gly Glu Arg Asp Asp	480	485	490
Gln Gln Val Phe Ile Gln Lys Val Val Pro Ile Thr Asn Lys Leu Phe	495	500	510
Val Arg Leu Ser Ser Thr Gly Lys Arg Ile Cys Glu Ile Gln Ala Val	515	520	525
Asp Cys Thr Thr Ile Ser Ser Phe Thr Gly Arg Glu Cys Glu Gly Ser	530	535	540
Ser Arg Met Gly Ser Arg Pro Arg Arg Tyr Leu Phe Thr Gly His Thr	545	550	555
Asn Gly Ser Ile Gln Met Trp Asp Leu Thr Thr Ala Met Asp Met Val	560	565	575
Asn Lys Ser Glu Asp Lys Asp Val Gly Gly Pro Thr Glu Glu Leu	580	585	590
Leu Lys Leu Leu Asp Gln Cys Asp Leu Ser Thr Ser Arg Cys Ala Thr	595	600	605
Pro Asn Ile Ser Pro Ala Thr Ser Val Val Gln His Ser His Leu Arg	610	615	620
Glu Ser Asn Ser Ser Leu Gln Leu Gln His His Asp Thr Thr His Glu	625	630	635
Ala Ala Thr Tyr Gly Ser Met Arg Pro Tyr Arg Glu Ser Pro Leu Leu	640	645	650
Ala Arg Ala Arg Arg Thr Glu Ser Phe His Ser Tyr Arg Asp Phe Gln	655	660	670
Thr Ile Asn Leu Asn Arg Asn Val Glu Arg Ala Val Pro Glu Asn Gly	675	680	685
Asn Leu Gly Pro Ile Gln Ala Glu Val Lys Gly Ala Thr Gly Glu Cys	690	695	700
Asn Ile Ser Glu Arg Lys Ser Pro Gly Val Glu Ile Lys Ser Leu Arg	705	710	715
Glu Leu Asp Ser Gly Leu Glu Val His Lys Ile Ala Glu Gly Phe Ser	720	725	730
Glu Ser Lys Lys Arg Ser Ser Glu Asp Glu Asn Glu Asn Lys Ile Glu	735	740	745
Phe Arg Lys Lys Gly Gly Phe Glu Gly Gly Gly Phe Leu Gly Arg Lys	750	755	760
Lys Val Pro Tyr Leu Ala Ser Ser Pro Ser Thr Ser Asp Gly Gly Thr	765	770	775
Asp Ser Pro Gly Thr Ala Ser Pro Ser Pro Thr Lys Thr Thr Pro Ser	780	785	790
Pro Arg His Lys Lys Ser Asp Ser Ser Gly Gln Glu Tyr Ser Leu	800	805	810
		810	815

<210> 1217  
<211> 459  
<212> Amino acid

&lt;213&gt; Homo sapiens

<400> 1217

Arg	Arg	Pro	Thr	Arg	Pro	Ile	Leu	Thr	Asp	Glu	Leu	Phe	Lys	Arg	Thr
1						5				10				15	
Ile	Gln	Leu	Pro	His	Leu	Lys	Thr	Leu	Ile	Leu	Asn	Gly	Asn	Lys	Leu
						20			25				30		
Glu	Thr	Leu	Ser	Leu	Val	Ser	Cys	Phe	Ala	Asn	Asn	Thr	Pro	Leu	Glu
						35			40			45			
His	Leu	Asp	Leu	Ser	Gln	Asn	Leu	Leu	Gln	His	Lys	Asn	Asp	Glu	Asn
						50			55			60			
Cys	Ser	Trp	Pro	Glu	Thr	Val	Val	Asn	Met	Asn	Leu	Ser	Tyr	Asn	Lys
						65			70			75			80
Leu	Ser	Asp	Ser	Val	Phe	Arg	Cys	Leu	Pro	Lys	Ser	Ile	Gln	Ile	Leu
						85			90			95			
Asp	Leu	Asn	Asn	Asn	Gln	Ile	Gln	Thr	Val	Pro	Lys	Glu	Thr	Ile	His
						100			105			110			
Leu	Met	Ala	Leu	Arg	Glu	Leu	Asn	Ile	Ala	Phe	Asn	Phe	Leu	Thr	Asp
						115			120			125			
Leu	Pro	Gly	Cys	Ser	His	Phe	Ser	Arg	Leu	Ser	Val	Leu	Asn	Ile	Glu
						130			135			140			
Met	Asn	Phe	Ile	Leu	Ser	Pro	Ser	Leu	Asp	Phe	Val	Gln	Ser	Cys	Gln
						145			150			155			160
Glu	Val	Lys	Thr	Leu	Asn	Ala	Gly	Arg	Asn	Pro	Phe	Arg	Cys	Thr	Cys
						165			170			175			
Glu	Leu	Lys	Asn	Phe	Ile	Gln	Leu	Glu	Thr	Tyr	Ser	Glu	Val	Met	Met
						180			185			190			
Val	Gly	Trp	Ser	Asp	Ser	Tyr	Thr	Cys	Glu	Tyr	Pro	Leu	Asn	Ile	Arg
						195			200			205			
Gly	Thr	Arg	Leu	Lys	Asp	Val	His	Leu	His	Glu	Leu	Ser	Cys	Asn	Thr
						210			215			220			
Ala	Ile	Leu	Ile	Val	Thr	Ile	Val	Val	Ile	Met	Leu	Val	Leu	Gly	Leu
						225			230			235			240
Ala	Val	Ala	Phe	Cys	Cys	Leu	His	Phe	Asp	Leu	Pro	Trp	Tyr	Leu	Arg
						245			250			255			
Met	Leu	Gly	Gln	Cys	Thr	Gln	Thr	Trp	His	Arg	Val	Arg	Lys	Thr	Thr
						260			265			270			
Gln	Glu	Gln	Leu	Lys	Arg	Asn	Val	Arg	Phe	His	Ala	Phe	Ile	Ser	Tyr
						275			280			285			
Ser	Glu	His	Asp	Ser	Leu	Trp	Val	Lys	Asn	Glu	Leu	Ile	Pro	Asn	Leu
						290			295			300			
Glu	Lys	Glu	Asp	Gly	Ser	Ile	Leu	Ile	Cys	Leu	Tyr	Glu	Ser	Tyr	Phe
						305			310			315			320
Asp	Pro	Gly	Lys	Ser	Ile	Ser	Glu	Asn	Ile	Val	Ser	Phe	Ile	Glu	Lys
						325			330			335			
Ser	Tyr	Lys	Ser	Ile	Phe	Val	Leu	Ser	Pro	Asn	Phe	Val	Gln	Asn	Glu
						340			345			350			
Trp	Cys	His	Tyr	Glu	Phe	Tyr	Phe	Ala	His	His	Asn	Leu	Phe	His	Glu
						355			360			365			
Asn	Ser	Asp	His	Ile	Ile	Leu	Ile	Leu	Leu	Glu	Pro	Ile	Pro	Phe	Tyr
						370			375			380			
Cys	Ile	Pro	Thr	Arg	Tyr	His	Lys	Leu	Lys	Ala	Leu	Leu	Glu	Lys	Lys
						385			390			395			400
Ala	Tyr	Leu	Glu	Trp	Pro	Lys	Asp	Arg	Arg	Lys	Cys	Gly	Leu	Phe	Trp
						405			410			415			
Ala	Asn	Leu	Arg	Ala	Ala	Ile	Asn	Val	Asn	Val	Leu	Ala	Thr	Arg	Glu
						420			425			430			
Met	Tyr	Glu	Leu	Gln	Thr	Phe	Thr	Glu	Leu	Asn	Glu	Glu	Ser	Arg	Gly
						435			440			445			
Ser	Thr	Ile	Ser	Leu	Met	Arg	Thr	Asp	Cys	Leu					

450

455

459

<210> 1218  
<211> 366  
<212>Amino acid  
<213> Homo sapiens

<400> 1218  
Pro Thr Arg Pro Pro Thr Arg Pro Pro Thr Arg Pro Leu Leu Thr Pro  
1                       5                       10                       15  
Ser Trp Thr Ser Thr Gly Arg Met Trp Ser His Leu Asn Arg Leu Leu  
20                      25                      30  
Phe Trp Ser Ile Phe Ser Ser Val Thr Cys Arg Lys Ala Val Leu Asp  
35                      40                      45  
Cys Glu Ala Met Lys Thr Asn Glu Phe Pro Ser Pro Cys Leu Asp Ser  
50                      55                      60  
Lys Thr Lys Val Val Met Lys Gly Gln Asn Val Ser Met Phe Cys Ser  
65                      70                      75                      80  
His Lys Asn Lys Ser Leu Gln Ile Thr Tyr Ser Leu Phe Arg Arg Lys  
85                      90                      95  
Thr His Leu Gly Thr Gln Asp Gly Lys Gly Glu Pro Ala Ile Phe Asn  
100                    105                      110  
Leu Ser Ile Thr Glu Ala His Glu Ser Gly Pro Tyr Lys Cys Lys Ala  
115                    120                      125  
Gln Val Thr Ser Cys Ser Lys Tyr Ser Arg Asp Phe Ser Phe Thr Ile  
130                    135                      140  
Val Asp Pro Val Thr Ser Pro Val Leu Asn Ile Met Val Ile Gln Thr  
145                    150                      155                      160  
Glu Thr Asp Arg His Ile Thr Leu His Cys Leu Ser Val Asn Gly Ser  
165                    170                      175  
Leu Pro Ile Asn Tyr Thr Phe Phe Asn His Val Ala Ile Ser Pro  
180                    185                      190  
Ala Ile Ser Lys Tyr Asp Arg Glu Pro Ala Glu Phe Asn Leu Thr Lys  
195                    200                      205  
Lys Asn Pro Gly Glu Glu Glu Tyr Arg Cys Glu Ala Lys Asn Arg  
210                    215                      220  
Leu Pro Asn Tyr Ala Thr Tyr Ser His Pro Val Thr Met Pro Ser Thr  
225                    230                      235                      240  
Gly Gly Asp Ser Cys Pro Phe Cys Leu Lys Leu Leu Leu Pro Gly Leu  
245                    250                      255  
Leu Leu Leu Val Val Ile Ile Leu Ile Leu Ala Phe Trp Val Leu  
260                    265                      270  
Pro Lys Tyr Lys Thr Arg Lys Ala Met Arg Asn Asn Val Pro Arg Asp  
275                    280                      285  
Arg Gly Asp Thr Ala Met Glu Val Gly Ile Tyr Ala Asn Ile Leu Glu  
290                    295                      300  
Lys Gln Ala Lys Glu Glu Ser Val Pro Glu Val Gly Ser Arg Pro Cys  
305                    310                      315                      320  
Val Ser Thr Ala Gln Asp Glu Ala Lys His Ser Gln Glu Leu Gln Tyr  
325                    330                      335  
Ala Thr Pro Val Phe Gln Glu Val Ala Pro Arg Glu Gln Glu Ala Cys  
340                    345                      350  
Asp Ser Tyr Lys Ser Gly Tyr Val Tyr Ser Glu Leu Asn Phe  
355                    360                      365 366

<210> 1219  
<211> 97  
<212>Amino acid

&lt;213&gt; Homo sapiens

<400> 1219  
 Phe Phe Phe Glu Glu Arg Arg Thr Gly Ser His Ser Val Gly His  
 1 5 10 15  
 Pro Arg Met Glu Tyr Ser Gly Val Ser Met Ala His Cys Ser Leu Asn  
 20 25 30  
 Leu Leu Gly Ser Ser Asn Ser Pro Ser Ser Ala Ser Gln Asp Ala Arg  
 35 40 45  
 Thr Thr Gly Ala Cys Gln His Ala Gln Leu Ile Gly Phe Phe Phe  
 50 55 60  
 Val Glu Thr Ala Ser Pro Gln Val Thr His Ala Gly Leu Lys His Leu  
 65 70 75 80  
 Val Ser Arg Asn Pro Ser Ala Val Thr Ser Gln Ser Ala Arg Ile Lys  
 85 90 95  
 Thr  
 97

<210> 1220  
<211> 242  
<212>Amino acid  
<213> Homo sapiens

<400> 1220  
 Asn Arg Glu Gly Ala Arg Lys Ile Gln Asn Lys Trp Leu Arg Pro Ser  
 1 5 10 15  
 Pro Arg Ser His Arg Thr Pro Glu Ser Val Ser Pro Glu Arg Tyr Ser  
 20 25 30  
 Tyr Gly Thr Ser Ser Ser Lys Arg Thr Glu Gly Ser Cys Arg Arg  
 35 40 45  
 Arg Arg Gln Ser Ser Ser Ala Asn Ser Gln Gln Gly Gln Trp Glu  
 50 55 60  
 Thr Gly Ser Pro Pro Thr Lys Arg Gln Arg Ser Arg Gly Arg Pro  
 65 70 75 80  
 Ser Gly Gly Ala Lys Arg Arg Arg Arg Gly Ala Pro Ala Ala Pro Gln  
 85 90 95  
 Gln Gln Ser Glu Pro Ala Arg Pro Ser Ser Glu Gly Lys Val Thr Cys  
 100 105 110  
 Asp Ile Arg Leu Arg Val Arg Ala Glu Tyr Cys Glu His Gly Pro Ala  
 115 120 125  
 Leu Glu Gln Gly Val Ala Ser Arg Arg Pro Gln Ala Leu Ala Arg Gln  
 130 135 140  
 Leu Asp Val Phe Gly Gln Ala Thr Ala Val Leu Arg Ser Arg Asp Leu  
 145 150 155 160  
 Gly Ser Val Val Cys Asp Ile Lys Phe Ser Glu Leu Ser Tyr Leu Asp  
 165 170 175  
 Ala Phe Trp Gly Asp Tyr Leu Ser Gly Ala Leu Leu Gln Ala Leu Arg  
 180 185 190  
 Gly Val Phe Leu Thr Glu Ala Leu Arg Glu Ala Val Gly Arg Glu Ala  
 195 200 205  
 Val Arg Leu Leu Val Ser Val Asp Glu Ala Asp Tyr Glu Ala Gly Arg  
 210 215 220  
 Arg Arg Leu Leu Leu Met Glu Glu Glu Gly Gly Arg Arg Pro Thr Glu  
 225 230 235 240  
 Ala Ser

242

<210> 1221  
<211> 440  
<212>Amino acid  
<213> Homo sapiens

<400> 1221  
Ala Pro Asn Thr Ala Glu Leu Arg Ile Cys Arg Val Asn Lys Asn Cys  
1 5 10 15  
Gly Ser Val Arg Gly Gly Asp Glu Ile Phe Leu Leu Cys Asp Lys Val  
20 25 30  
Gln Lys Asp Asp Ile Glu Val Arg Phe Val Leu Asn Asp Trp Glu Ala  
35 40 45  
Lys Gly Ile Phe Ser Gln Ala Asp Val His Arg Gln Val Ala Ile Val  
50 55 60  
Phe Lys Thr Pro Pro Tyr Cys Lys Ala Ile Thr Glu Pro Val Thr Val  
65 70 75 80  
Lys Met Gln Leu Arg Arg Pro Ser Asp Gln Glu Val Ser Glu Ser Met  
85 90 95  
Asp Phe Arg Tyr Ile Pro Asp Glu Lys Asp Thr Tyr Gly Asn Lys Ala  
100 105 110  
Lys Lys Lys Thr Thr Leu Leu Phe Gln Lys Leu Cys Gln Asp His  
115 120 125  
Val Glu Thr Gly Phe Arg His Val Asp Gln Asp Gly Leu Glu Leu Leu  
130 135 140  
Thr Ser Gly Asp Pro Pro Thr Leu Ala Ser Gln Ser Ala Gly Ile Thr  
145 150 155 160  
Val Asn Phe Pro Glu Arg Pro Arg Pro Gly Leu Leu Gly Ser Ile Gly  
165 170 175  
Glu Gly Arg Tyr Phe Lys Lys Glu Pro Asn Leu Phe Ser His Asp Ala  
180 185 190  
Val Val Arg Glu Met Pro Thr Gly Val Ser Ser Gln Ala Glu Ser Tyr  
195 200 205  
Tyr Pro Ser Pro Gly Pro Ile Ser Ser Gly Leu Ser His His Ala Ser  
210 215 220  
Met Ala Pro Leu Pro Ser Ser Ser Trp Ser Ser Val Ala His Pro Thr  
225 230 235 240  
Pro Arg Ser Gly Asn Thr Asn Pro Leu Ser Ser Phe Ser Thr Arg Thr  
245 250 255  
Leu Pro Ser Asn Ser Gln Gly Ile Pro Pro Phe Leu Arg Ile Pro Val  
260 265 270  
Gly Asn Asp Leu Asn Ala Ser Asn Ala Cys Ile Tyr Asn Asn Ala Asp  
275 280 285  
Asp Ile Val Gly Met Glu Ala Ser Ser Met Pro Ser Ala Asp Leu Tyr  
290 295 300  
Gly Ile Ser Asp Pro Asn Met Leu Ser Asn Cys Ser Val Asn Met Met  
305 310 315 320  
Thr Thr Ser Ser Asp Ser Met Gly Glu Thr Asp Asn Pro Arg Leu Leu  
325 330 335  
Ser Met Asn Leu Glu Asn Pro Ser Cys Asn Ser Val Leu Asp Pro Arg  
340 345 350  
Asp Leu Arg Gln Leu His Gln Met Ser Ser Ser Met Ser Ala Gly  
355 360 365  
Ala Asn Ser Asn Thr Thr Val Phe Val Ser Gln Ser Asp Ala Phe Glu  
370 375 380  
Gly Ser Asp Phe Ser Cys Ala Asp Asn Ser Met Ile Asn Glu Ser Gly  
385 390 395 400  
Pro Ser Asn Ser Thr Asn Pro Asn Ser His Gly Phe Val Gln Asp Ser

Gln	Tyr	Ser	Gly	Ile	Gly	Ser	Met	Gln	Asn	Glu	Gln	Leu	Ser	Asp	Ser
405							410							415	
420							425							430	
Phe	Pro	Tyr	Glu	Phe	Phe	Gln	Val								
435							440								

<210> 1222  
<211> 437  
<212>Amino acid  
<213> Homo sapiens

<400> 1222															
Arg	Arg	Leu	Ser	Leu	Leu	Asp	Leu	Gln	Leu	Gly	Pro	Leu	Gly	Arg	Asp
1									10					15	
Pro	Pro	Gln	Glu	Cys	Ser	Thr	Phe	Ser	Pro	Thr	Asp	Ser	Gly	Glu	Glu
		20						25					30		
Pro	Gly	Gln	Leu	Ser	Pro	Gly	Val	Gln	Phe	Gln	Arg	Arg	Gln	Asn	Gln
	35						40				45				
Arg	Arg	Phe	Ser	Met	Glu	Asp	Val	Ser	Lys	Arg	Leu	Ser	Leu	Pro	Met
	50				55				60						
Asp	Ile	Arg	Leu	Pro	Gln	Phe	Leu	Gln	Lys	Leu	Gln	Met	Glu	Ser	
	65				70			75				80			
Pro	Asp	Leu	Pro	Lys	Pro	Leu	Ser	Arg	Met	Ser	Arg	Arg	Ala	Ser	Leu
		85				90			95						
Ser	Asp	Ile	Gly	Phe	Gly	Lys	Leu	Glu	Thr	Tyr	Val	Lys	Leu	Asp	Lys
	100				105			110							
Leu	Gly	Gly	Gly	Thr	Tyr	Ala	Thr	Val	Phe	Lys	Gly	Arg	Ser	Lys	Leu
	115				120				125						
Thr	Glu	Asn	Leu	Val	Ala	Leu	Lys	Glu	Ile	Arg	Leu	Glu	His	Glu	
	130				135			140							
Gly	Ala	Pro	Cys	Thr	Ala	Ile	Arg	Glu	Val	Ser	Leu	Leu	Lys	Asn	Leu
	145				150			155				160			
Lys	His	Ala	Asn	Ile	Val	Thr	Leu	His	Asp	Leu	Ile	His	Thr	Asp	Arg
		165				170		175							
Ser	Leu	Thr	Leu	Val	Phe	Glu	Tyr	Leu	Asp	Ser	Asp	Leu	Lys	Gln	Tyr
	180				185			190							
Leu	Asp	His	Cys	Gly	Asn	Leu	Met	Ser	Met	His	Asn	Val	Lys	Ile	Phe
	195				200			205							
Met	Phe	Gln	Leu	Leu	Arg	Gly	Leu	Ala	Tyr	Cys	His	His	Arg	Lys	Ile
	210				215			220							
Leu	His	Arg	Asp	Leu	Lys	Pro	Gln	Asn	Leu	Ile	Asn	Glu	Arg	Gly	
	225				230			235				240			
Glu	Leu	Lys	Leu	Ala	Asp	Phe	Gly	Leu	Ala	Arg	Ala	Lys	Ser	Val	Pro
		245				250			255						
Thr	Lys	Thr	Tyr	Ser	Asn	Glu	Val	Val	Thr	Leu	Trp	Tyr	Arg	Pro	Pro
	260				265				270						
Asp	Val	Leu	Leu	Gly	Ser	Thr	Glu	Tyr	Ser	Thr	Pro	Ile	Asp	Met	Trp
	275				280			285							
Gly	Val	Gly	Cys	Ile	His	Tyr	Glu	Met	Ala	Thr	Gly	Arg	Pro	Leu	Phe
	290				,295			300							
Pro	Gly	Ser	Thr	Val	Lys	Glu	Glu	Leu	His	Lys	Ile	Asn	Arg	Leu	
	305				310			315				320			
Gly	Thr	Pro	Thr	Glu	Glu	Thr	Trp	Pro	Gly	Val	Thr	Ala	Phe	Ser	Glu
		325				330			335						
Phe	Arg	Thr	Tyr	Ser	Phe	Pro	Cys	Tyr	Leu	Pro	Gln	Pro	Leu	Ile	Asn
	340						345				350				
His	Ala	Pro	Arg	Leu	Asp	Thr	Asp	Gly	Ile	His	Leu	Leu	Ser	Ser	Leu
	355						360				365				
Leu	Leu	Tyr	Glu	Ser	Lys	Ser	Arg	Met	Ser	Ala	Glu	Ala	Ala	Ser	

370	375	380
His Ser Tyr Phe Arg Ser Leu Gly Glu Arg Val His Gln Leu Glu Asp		
385	390	395
Thr Ala Ser Ile Phe Ser Leu Lys Glu Ile Gln Leu Gln Lys Asp Pro		400
405	410	415
Gly Tyr Arg Gly Leu Ala Phe Gln Gln Pro Gly Arg Gly Lys Asn Arg		
420	425	430
Arg Gln Ser Ile Phe		
435	437	

<210> 1223  
<211> 150  
<212>Amino acid  
<213> Homo sapiens

<400> 1223		
Cys Thr Pro His Gly Ser Ser Ser Trp Lys Ile Pro Leu Trp Pro		
1	5	10
Arg His Met Ser Pro Leu His Ser Cys Leu Pro Val Gly Thr Ser Thr		15
20	25	30
Ser Ser Gly Pro Leu Ala Val Pro Arg Asp Cys Phe His Leu Cys Cys		
35	40	45
Leu Trp Gly Gln Leu Leu Ile Ser Cys Pro Leu Ala Cys Gly Gln		
50	55	60
Gly Cys Arg Val Ala Gly Gly Gln His Val Pro Gly Gln Ala Leu		
65	70	75
Gly Thr Leu Ser Pro Leu Val Ser Leu Leu Thr Trp Ala Gly Pro Ser		80
85	90	95
Leu Asp Trp Pro His Pro Gly Ser Leu Val Thr Pro Arg Cys Pro Ile		
100	105	110
Leu Pro Ala Val Pro Val Leu Val Lys Gly Leu Gly Trp Pro Pro		
115	120	125
Thr Arg Pro Ser Arg Ala Ala Pro Val Ser Gly Pro Trp Asp Gln Leu		
130	135	140
Pro Tyr Phe Pro Gly Leu		
145	150	

<210> 1224  
<211> 276  
<212>Amino acid  
<213> Homo sapiens

<400> 1224		
Leu Ile Ser Pro Val Trp Gly Asn Ile Gln Arg Ser Arg Ser Val Pro		
1	5	10
Leu Phe Pro Ser Gly Leu Val Leu Gly Gly Ile Trp Ala Arg Gly Pro		15
20	25	30
Leu Leu Ala Leu Leu Ala Ser Phe Asn Ile Ile Ser Val Leu Asn Ala		
35	40	45
Glu Cys Tyr Leu Lys Gln Ile Leu His Pro Thr Ser His Phe Thr Val		
50	55	60
Ser Glu Thr Pro Pro Leu Ser Gly Asn Asp Thr Asp Ser Leu Ser Cys		
65	70	75
Asp Ser Gly Ser Ser Ala Thr Ser Thr Pro Cys Val Ser Arg Leu Val		80

85	90	95
Thr Gly His His Leu Trp Ala Ser Lys Asn Gly Arg His Val Leu Gly		
100	105	110
Leu Ile Glu Asp Tyr Glu Ala Leu Leu Lys Gln Ile Ser Gln Gly Gln		
115	120	125
Arg Leu Leu Ala Glu Met Asp Ile Gln Thr Gln Glu Ala Pro Ser Ser		
130	135	140
Thr Ser Gln Glu Leu Gly Thr Lys Gly Pro His Pro Ala Pro Leu Ser		
145	150	155
Lys Phe Val Ser Ser Val Ser Thr Ala Lys Leu Thr Leu Glu Glu Ala		
165	170	175
Tyr Arg Arg Leu Lys Leu Leu Trp Arg Val Ser Leu Pro Glu Asp Gly		
180	185	190
Gln Cys Pro Leu His Cys Glu Gln Ile Gly Glu Met Lys Ala Glu Val		
195	200	205
Thr Lys Leu His Lys Lys Leu Phe Glu Gln Glu Lys Lys Leu Gln Asn		
210	215	220
Thr Met Lys Leu Leu Gln Leu Ser Lys Arg Gln Glu Lys Val Ile Phe		
225	230	235
Asp Gln Leu Val Val Thr His Lys Ile Leu Arg Lys Ala Arg Gly Asn		
245	250	255
Leu Glu Leu Arg Pro Gly Gly Ala His Pro Gly Thr Cys Ser Pro Ser		
260	265	270
Arg Pro Gly Ser		
275 276		

<210> 1225  
 <211> 270  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1225		
Leu Gly Leu Phe Cys Ile Leu Pro Ile Asp Thr Leu Cys Ala Val Leu		
1	5	10
Glu Arg Asp Thr Leu Ser Ile Arg Glu Ser Arg Leu Phe Gly Ala Val		
20	25	30
Val Arg Trp Ala Glu Ala Glu Cys Gln Arg Gln Gln Leu Pro Val Thr		
35	40	45
Phe Gly Asn Lys Gln Lys Val Leu Gly Lys Ala Leu Ser Leu Ile Arg		
50	55	60
Phe Pro Leu Met Thr Ile Glu Glu Phe Ala Ala Gly Pro Ala Gln Ser		
65	70	75
Gly Ile Leu Ser Asp Arg Glu Val Val Asn Leu Phe Leu His Phe Thr		
85	90	95
Val Asn Pro Lys Pro Arg Val Glu Tyr Ile Asp Arg Pro Arg Cys Cys		
100	105	110
Leu Arg Gly Lys Glu Cys Cys Ile Asn Arg Phe Gln Gln Val Glu Ser		
115	120	125
Arg Trp Gly Tyr Ser Gly Thr Ser Asp Arg Ile Arg Phe Thr Val Asn		
130	135	140
Arg Arg Ile Ser Ile Val Gly Phe Gly Leu Tyr Gly Ser Ile His Gly		
145	150	155
Pro Thr Asp Tyr Gln Val Asn Ile Gln Ile Ile Glu Tyr Glu Lys Lys		
165	170	175
Gln Thr Leu Gly Gln Asn Asp Thr Gly Phe Ser Cys Asp Gly Thr Ala		
180	185	190
Asn Thr Phe Arg Val Met Phe Lys Glu Pro Ile Glu Ile Leu Pro Asn		
195	200	205
Val Cys Tyr Thr Ala Cys Ala Thr Leu Lys Gly Pro Asp Ser His Tyr		

210	215	220
Gly Thr Lys Gly Leu Lys Lys Val Val His Glu Thr Pro Ala Ala Ser		
225	230	235
Lys Thr Val Phe Phe Phe Ser Ser Pro Gly Asn Asn Asn Gly Thr		240
245	250	255
Ser Ile Glu Asp Gly Gln Ile Pro Glu Ile Ile Phe Tyr Thr		
260	265	270

<210> 1226  
<211> 273  
<212>Amino acid  
<213> Homo sapiens

<400> 1226		
Ser Val Trp Trp Asn Ser Glu Val Lys Asp Trp Met Gln Lys Lys Arg		
1	5	10
Arg Gly Leu Arg Asn Ser Arg Ala Thr Ala Gly Asp Ile Ala His Tyr		15
20	25	30
Tyr Arg Asp Tyr Val Val Lys Lys Gly Leu Gly His Asn Phe Val Ser		
35	40	45
Gly Ala Val Val Thr Ala Val Glu Trp Gly Thr Pro Asp Pro Ser Ser		
50	55	60
Cys Gly Ala Gln Asp Ser Ser Pro Leu Phe Gln Val Ser Gly Phe Leu		
65	70	75
Thr Arg Asn Gln Ala Gln Gln Pro Phe Ser Leu Trp Ala Arg Asn Val		80
85	90	95
Val Leu Ala Thr Gly Thr Phe Asp Ser Pro Ala Arg Leu Gly Ile Pro		
100	105	110
Gly Glu Ala Leu Pro Phe Ile His His Glu Leu Ser Ala Leu Glu Ala		
115	120	125
Ala Thr Arg Val Gly Ala Val Thr Pro Ala Ser Asp Pro Val Leu Ile		
130	135	140
Ile Gly Ala Gly Leu Ser Ala Ala Asp Ala Val Leu Tyr Ala Arg His		
145	150	155
Tyr Asn Ile Pro Val Ile His Ala Phe Arg Arg Ala Val Asp Asp Pro		160
165	170	175
Gly Leu Val Phe Asn Gln Leu Pro Lys Met Leu Tyr Pro Glu Tyr His		
180	185	190
Lys Val His Gln Met Met Arg Glu Gln Ser Ile Leu Ser Pro Ser Pro		
195	200	205
Tyr Glu Gly Tyr Arg Ser Leu Pro Arg His Gln Leu Leu Cys Phe Lys		
210	215	220
Glu Asp Cys Gln Ala Val Phe Gln Asp Leu Glu Gly Val Glu Lys Val		
225	230	235
Phe Gly Val Ser Leu Val Leu Val Ile Gly Ser His Pro Asp Leu		240
245	250	255
Ser Phe Leu Pro Gly Ala Gly Leu Thr Leu Gln Trp Ile Leu Thr Ser		
260	265	270
Arg		
273		

<210> 1227  
<211> 86  
<212>Amino acid  
<213> Homo sapiens

<400> 1227  
 Lys Leu Arg Pro Phe Ile Phe Ser Asn Gln Ser Leu Trp Leu His Ser  
 1 5 10 15  
 Tyr Glu Gly Ala Glu Leu Glu Lys Thr Phe Ile Lys Gly Ser Trp Ala  
 20 25 30  
 Thr Phe Trp Val Lys Val Ala Ser Cys Trp Ala Cys Val Leu Leu Tyr  
 35 40 45  
 Leu Gly Leu Leu Leu Ala Pro Leu Cys Trp Pro Pro Thr Gln Lys Pro  
 50 55 60  
 Gln Pro Leu Ile Leu Arg Arg Arg Arg His Arg Ile Ile Ser Pro Asp  
 65 70 75 80  
 Asn Lys Tyr Pro Pro Val  
 85 86

<210> 1228  
 <211> 249  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1228  
 Gln Leu Ile His Leu Ser His Gly Tyr Gln Ile His Trp Thr Asp Tyr  
 1 5 10 15  
 Tyr Asn Val Gly Thr Gly Arg Pro Glu Phe Gly Thr Arg Ala Ala His  
 20 25 30  
 Lys Ser Leu Ala Gly Ala Glu Leu Lys Thr Leu Lys Asp Phe Val Thr  
 35 40 45  
 Val Leu Ala Lys Leu Phe Pro Gly Arg Pro Pro Val Lys Lys Leu Leu  
 50 55 60  
 Glu Met Leu Gln Glu Trp Leu Ala Ser Leu Pro Leu Asp Arg Ile Pro  
 65 70 75 80  
 Tyr Asn Ala Val Leu Asp Leu Val Asn Asn Lys Met Arg Ile Ser Gly  
 85 90 95  
 Ile Phe Leu Thr Asn His Ile Lys Trp Val Gly Cys Gln Gly Ser Arg  
 100 105 110  
 Ser Glu Leu Arg Gly Tyr Pro Cys Ser Leu Trp Lys Leu Phe His Thr  
 115 120 125  
 Leu Thr Val Glu Ala Ser Thr His Pro Asp Ala Leu Val Gly Thr Gly  
 130 135 140  
 Phe Glu Asp Asp Pro Gln Ala Val Leu Gln Thr Met Arg Arg Tyr Val  
 145 150 155 160  
 His Thr Phe Phe Gly Cys Lys Glu Cys Gly Glu His Phe Glu Glu Met  
 165 170 175  
 Ala Lys Glu Ser Met Asp Ser Val Lys Thr Pro Asp Gln Ala Ile Leu  
 180 185 190  
 Trp Leu Trp Lys Lys His Asn Met Val Asn Gly Arg Leu Ala Gly Glu  
 195 200 205  
 Lys Pro Leu Gly Met Gly Gly Ser Ala Arg Ala Glu Gly Gly Pro Gly  
 210 215 220  
 Pro Gly Thr Ala Arg Thr Ala Arg Leu Pro Trp Gly Leu Ser Leu Ser  
 225 230 235 240  
 Phe Ala Ala Ser Cys His Pro Leu Cys  
 245 249

<210> 1229  
 <211> 800  
 <212>Amino acid

&lt;213&gt; Homo sapiens

<400> 1229

His	Gly	Gly	Ala	Thr	Phe	Ile	Asn	Ala	Phe	Val	Thr	Thr	Pro	Met	Cys	
1																15
Cys	Pro	Ser	Arg	Ser	Ser	Met	Leu	Thr	Gly	Lys	Tyr	Val	His	Asn	His	
																20
																25
Asn	Val	Tyr	Thr	Asn	Asn	Glu	Asn	Cys	Ser	Ser	Pro	Ser	Trp	Gln	Ala	
																30
																35
Met	His	Glu	Pro	Arg	Thr	Phe	Ala	Val	Tyr	Leu	Asn	Asn	Thr	Gly	Tyr	
																40
																45
Arg	Thr	Ala	Phe	Phe	Gly	Lys	Tyr	Leu	Asn	Glu	Tyr	Asn	Gly	Ser	Tyr	
																50
																55
Ile	Pro	Pro	Gly	Trp	Arg	Glu	Trp	Leu	Gly	Leu	Ile	Lys	Asn	Ser	Arg	
																60
																65
Phe	Tyr	Asn	Tyr	Thr	Val	Cys	Arg	Asn	Gly	Ile	Lys	Glu	Lys	His	Gly	
																70
																75
Pho	Asp	Tyr	Ala	Lys	Asp	Tyr	Phe	Thr	Asp	Leu	Ile	Thr	Asn	Glu	Ser	
																80
																85
Ile	Asn	Tyr	Phe	Lys	Met	Ser	Lys	Arg	Met	Tyr	Pro	His	Arg	Pro	Val	
																90
																95
Met	Met	Val	Ile	Ser	His	Ala	Glu	Pro	His	Gly	Pro	Glu	Asp	Ser	Ala	
																100
																105
Pro	Gln	Phe	Ser	Lys	Leu	Tyr	Pro	Asn	Ala	Ser	Gln	His	Ile	Thr	Pro	
																110
																115
Ser	Tyr	Asn	Tyr	Ala	Pro	Asn	Met	Asp	Lys	His	Trp	Ile	Met	Gln	Tyr	
																120
																125
Thr	Gly	Pro	Met	Leu	Pro	Ile	His	Met	Glu	Pro	Asp	Ser	Ile	Leu	Gln	
																130
																135
Arg	Lys	Arg	Leu	Gln	Thr	Leu	Met	Ser	Val	Asp	Asp	Ser	Val	Glu	Arg	
																140
																145
Ile	Tyr	Asn	Tyr	Ala	Pro	Asn	Met	Asp	Lys	His	Trp	Ile	Met	Gln	Tyr	
																150
																155
Pro	Gln	Phe	Ser	Lys	Leu	Tyr	Pro	Asn	Ala	Ser	Gln	His	Ile	Thr	Pro	
																160
																165
Ser	Tyr	Asn	Tyr	Ala	Pro	Asn	Met	Asp	Lys	His	Trp	Ile	Met	Gln	Tyr	
																170
																175
Thr	Gly	Pro	Met	Leu	Pro	Ile	His	Met	Glu	Phe	Thr	Asn	Ile	Leu	Gln	
																180
																185
Arg	Lys	Arg	Leu	Gln	Thr	Leu	Met	Ser	Val	Asp	Asp	Ser	Val	Glu	Arg	
																190
																195
Ile	Tyr	Asn	Tyr	Ala	Pro	Asn	Met	Asp	Lys	His	Trp	Ile	Met	Gln	Tyr	
																200
																205
Leu	Tyr	Asn	Met	Leu	Val	Glu	Thr	Gly	Glu	Leu	Glu	Asn	Thr	Tyr	Ile	
																210
																215
Leu	Tyr	Asn	Tyr	Ala	Pro	Asn	Met	Asp	Lys	His	Trp	Ile	Met	Gln	Tyr	
																220
																225
Ile	Tyr	Asn	Tyr	Ala	Pro	Asn	Met	Asp	Lys	His	Trp	Ile	Met	Gln	Tyr	
																230
																235
Arg	Lys	Arg	Leu	Gln	Thr	Leu	Met	Ser	Val	Asp	Asp	Ser	Val	Glu	Arg	
																240
																245
Ile	Tyr	Asn	Tyr	Ala	Pro	Asn	Met	Asp	Lys	His	Trp	Ile	Met	Gln	Tyr	
																250
																255
Arg	Lys	Arg	Leu	Gln	Thr	Leu	Met	Ser	Val	Asp	Asp	Ser	Val	Glu	Arg	
																260
																265
Ile	Tyr	Asn	Tyr	Ala	Pro	Asn	Met	Asp	Lys	His	Trp	Ile	Met	Gln	Tyr	
																270
																275
Leu	Tyr	Asn	Tyr	Ala	Pro	Asn	Met	Asp	Lys	His	Trp	Ile	Met	Gln	Tyr	
																280
																285
Leu	Tyr	Asn	Tyr	Ala	Pro	Asn	Met	Asp	Lys	His	Trp	Ile	Met	Gln	Tyr	
																290
																295
Arg	Lys	Arg	Leu	Gln	Thr	Leu	Met	Ser	Val	Asp	Asp	Ser	Val	Glu	Arg	
																300
																305
Thr	Gly	Pro	Met	Leu	Val	Glu	Thr	Gly	Ser	Ile	Val	Pro	Gln	Ile	Val	
																310
																315
Glu	Lys	Pro	Gly	Asn	Arg	Phe	Arg	Thr	Asn	Lys	Lys	Ala	Lys	Ile	Trp	
																320
																325
Arg	Asp	Thr	Phe	Leu	Val	Glu	Arg	Lys	Phe	Leu	Arg	Lys	Lys	Gly	Asp	
																330
																335
Glu	Ser	Ser	Asn	Ile	Gln	Gln	Ser	Asn	His	Leu	Pro	Lys	Tyr	Glu	Asp	
																340
																345
																350
Arg	Val	Lys	Glu	Leu	Cys	Gln	Gln	Ala	Arg	Tyr	Gln	Thr	Ala	Cys	Glu	
																355
																360
Gln	Pro	Gly	Gln	Lys	Trp	Gln	Cys	Ile	Glu	Asp	Thr	Ser	Gly	Lys	Leu	
																365
																370
																375
																380
Gln	Pro	Gly	Gln	Lys	Trp	Gln	Cys	Ile	Glu	Asp	Thr	Ser	Gly	Lys	Leu	
																385
																390
																395
Arg	Ile	His	Lys	Cys	Lys	Gly	Pro	Ser	Asp	Leu	Leu	Thr	Val	Arg	Gln	
																405
																410
Ser	Thr	Arg	Asn	Leu	Tyr	Ala	Arg	Gly	Phe	His	Asp	Lys	Asp	Lys	Glu	
																420
																425
Cys	Ser	Cys	Arg	Glu	Ser	Gly	Tyr	Arg	Ala	Ser	Arg	Ser	Gln	Arg	Lys	
																430
																435
Ser	Gln	Arg	Gln	Phe	Leu	Arg	Asn	Gln	Gly	Thr	Pro	Lys	Tyr	Lys	Pro	

450	455	460
Arg Phe Val His Thr Arg Gln Thr Arg Ser Leu Ser Val Glu Phe Glu		
455	470	475
Gly Glu Ile Tyr Asp Ile Asn Leu Glu Glu Glu Glu Leu Gln Val		480
485	490	495
Leu Gln Pro Arg Asn Ile Ala Lys Arg His Asp Glu Gly His Lys Gly		
500	505	510
Pro Arg Asp Leu Gln Ala Ser Ser Gly Gly Asn Arg Gly Arg Met Leu		
515	520	525
Ala Asp Ser Ser Asn Ala Val Gly Pro Pro Thr Thr Val Arg Val Thr		
530	535	540
His Lys Cys Phe Ile Leu Pro Asn Asp Ser Ile His Cys Glu Arg Glu		
545	550	555
Leu Tyr Gln Ser Ala Arg Ala Trp Lys Asp His Lys Ala Tyr Ile Asp		560
565	570	575
Glu Glu Ile Glu Ala Leu Gln Asp Lys Ile Lys Asn Leu Arg Glu Val		
580	585	590
Arg Gly His Leu Lys Arg Arg Lys Pro Glu Glu Cys Ser Cys Ser Lys		
595	600	605
Gln Ser Tyr Tyr Asn Lys Glu Lys Gly Val Lys Lys Gln Glu Lys Leu		
610	615	620
Lys Ser His Leu His Pro Phe Lys Glu Ala Ala Gln Glu Val Asp Ser		
625	630	635
Lys Leu Gln Leu Phe Lys Glu Asn Asn Arg Arg Arg Lys Lys Glu Arg		640
645	650	655
Lys Glu Lys Arg Arg Gln Arg Lys Gly Glu Glu Cys Ser Leu Pro Gly		
660	665	670
Leu Thr Cys Phe Thr His Asp Asn Asn His Trp Gln Thr Ala Pro Phe		
675	680	685
Trp Asn Leu Gly Ser Phe Cys Ala Cys Thr Ser Ser Asn Asn Asn Thr		
690	695	700
Tyr Trp Cys Leu Arg Thr Val Asn Glu Thr His Asn Phe Leu Phe Cys		
705	710	715
Glu Phe Ala Thr Gly Phe Leu Glu Tyr Phe Asp Met Asn Thr Asp Pro		720
725	730	735
Tyr Gln Leu Thr Asn Thr Val His Thr Val Glu Arg Gly Ile Leu Asn		
740	745	750
Gln Leu His Val Gln Leu Met Glu Leu Arg Ser Cys Gln Gly Tyr Lys		
755	760	765
Gln Cys Asn Pro Arg Pro Lys Asn Leu Asp Val Gly Asn Lys Asp Gly		
770	775	780
Gly Ser Tyr Asp Leu His Arg Gly Gln Leu Trp Asp Gly Trp Glu Gly		
785	790	795
		800

<210> 1230  
 <211> 698  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1230
His Leu Leu Ile Ala Gln Glu Leu Ala Asp Arg Val Gly Glu Gly Arg
1 5 10 15
Ala Cys Trp Ser Leu Gly Asn Ala Tyr Val Ser Met Gly Arg Pro Ala
20 25 30
Gln Ala Leu Thr Phe Ala Lys Lys His Leu Gln Ile Ser Gln Glu Ile
35 40 45
Gly Asp Arg His Gly Glu Leu Thr Ala Arg Met Asn Val Ala Gln Leu

50	55	60
Gln Leu Val Leu Gly Arg Leu Thr Ser Pro Ala Ala Ser Glu Lys Pro		
65	70	75
Asp Leu Ala Gly Tyr Glu Ala Gln Gly Ala Arg Pro Lys Arg Thr Gln		80
85	90	95
Arg Leu Ser Ala Glu Thr Trp Asp Leu Leu Arg Leu Pro Leu Glu Arg		
100	105	110
Glu Gln Asn Gly Asp Ser His His Ser Gly Asp Trp Arg Gly Pro Ser		
115	120	125
Arg Asp Ser Leu Pro Leu Pro Val Arg Ser Arg Lys Tyr Gln Glu Gly		
130	135	140
Pro Asp Ala Glu Arg Pro Arg Glu Gly Ser His Ser Pro Leu Asp		
145	150	155
Ser Ala Asp Val Arg Val His Val Pro Arg Thr Ser Ile Pro Arg Ala		160
165	170	175
Pro Ser Ser Asp Glu Glu Cys Phe Phe Asp Leu Leu Thr Lys Phe Gln		
180	185	190
Ser Ser Arg Met Asp Asp Gln Arg Cys Pro Leu Asp Asp Gly Gln Ala		
195	200	205
Gly Ala Ala Glu Ala Ala Thr Ala Ala Pro Thr Leu Glu Asp Arg Ile Ala		
210	215	220
Gln Pro Ser Met Thr Ala Ser Pro Gln Thr Glu Glu Phe Phe Asp Leu		
225	230	235
Ile Ala Ser Ser Gln Ser Arg Arg Leu Asp Asp Gln Arg Ala Ser Val		240
245	250	255
Gly Ser Leu Pro Gly Leu Arg Ile Thr His Ser Asn Ala Gly His Leu		
260	265	270
Arg Gly His Gly Glu Pro Gln Glu Pro Gly Asp Asp Phe Phe Asn Met		
275	280	285
Leu Ile Lys Tyr Gln Ser Ser Arg Ile Asp Asp Gln Arg Cys Pro Pro		
290	295	300
Pro Asp Val Leu Pro Arg Gly Pro Thr Met Pro Asp Glu Asp Phe Phe		
305	310	315
Ser Leu Ile Gln Arg Val Gln Ala Lys Arg Met Asp Glu Gln Arg Val		320
325	330	335
Asp Leu Ala Gly Gly Pro Gly Ala Gly Gly Arg Arg Pro Ala Arg Ala		
340	345	350
Pro Ala Ala Val Pro Ala Trp Cys Glu Leu Arg Pro Cys Ala His Arg		
355	360	365
Gln Ala His Pro Ala Pro Thr Pro Gly Arg Arg Ser His Ser His Ser		
370	375	380
His Val Leu Pro Arg Pro Leu Pro Arg Thr Gly His Ala Ala		
385	390	395
Pro Arg Pro Pro Arg Pro Arg Ala Thr Gly Ser Gly Gln Ala Ala Arg		400
405	410	415
Gly Gly Arg Ala Cys Phe His Pro Gly Leu Ala Pro Met Ala Leu Ser		
420	425	430
Phe Leu Pro Ser Ala Pro Ala Ala Gly Arg Thr Gly Pro Ser Ala Cys		
435	440	445
Arg Pro Arg Pro Gly Ala Val Arg Leu Pro His Pro Leu Pro Gln Ala		
450	455	460
Leu Pro Val Leu Pro Cys Pro Ala Lys Cys Glu Thr Leu Leu Ser Pro		
465	470	475
Ser Pro Ser Pro Lys Val Ser Leu Ser Arg Leu Leu Gly Pro Pro Arg		480
485	490	495
Thr Gly Pro Cys Ser Val Pro Pro Glu Leu Val Leu Gly Trp Pro Cys		
500	505	510
Asp Arg His Ala Pro Pro Leu Gln Leu Arg Pro Gly Ala Gly Leu Pro		
515	520	525
Pro Ser Leu Ser Pro His Ser Pro Ala Arg Gly Gln Gln Pro Gln Lys		
530	535	540
Ala Pro Gln Thr Thr His Gly Arg Pro Gly Cys Ser Gly Ser Pro Glu		
545	550	555
Val Pro Pro Ala Glu Ser Gln Gly Pro Ala Gly Ala Ser Thr Gly Ala		560

	565	570	575
Gly Pro Ile Ser Lys Ala Glu Gly Met Ala Gly His Glu Leu Arg His			
580	585	590	
Ser Lys Thr Pro Ser Gln Glu Lys Gly Gln Gly Leu Val Leu Gly Met			
595	600	605	
Leu Thr Gly Ser Lys Ser Ser Ala Gln Ser Gly Trp Glu Val Ala Pro			
610	615	620	
Gly Ser Val Thr Leu Thr Gln Val Gly Gly Trp Ser Val Glu Ala Gly			
625	630	635	640
Glu Ala Ser Leu Ser Ser Thr Leu Gln Thr Pro His Met Arg Thr Pro			
645	650	655	
Leu Leu Pro Pro Ala Gly Gly Asp Asp Ile Thr Ala Leu Ser Met Gly			
660	665	670	
Arg Gly Leu Thr Gly His Gln Val Arg Asp Pro Arg Thr Gly Arg Thr			
675	680	685	
Cys Trp Ser Leu Arg Trp Ala Pro Gly Ala			
690	695	698	

<210> 1231  
<211> 131  
<212>Amino acid  
<213> Homo sapiens

	<400> 1231		
Asn Ser Ala Ala Asp Leu Ala Ile Phe Ala Leu Trp Gly Leu Lys Pro			
1	5	10	15
Val Val Tyr Leu Leu Ala Ser Ser Phe Leu Gly Leu Gly Leu His Pro			
20	25	30	
Ile Ser Gly His Phe Val Ala Glu His Tyr Met Phe Leu Lys Gly His			
35	40	45	
Glu Thr Tyr Ser Tyr Tyr Gly Pro Leu Asn Trp Ile Thr Phe Asn Val			
50	55	60	
Gly Tyr His Val Glu His His Asp Phe Pro Ser Ile Pro Gly Tyr Asn			
65	70	75	80
Leu Pro Leu Val Arg Lys Ile Ala Pro Glu Tyr Tyr Asp His Leu Pro			
85	90	95	
Gln His His Ser Trp Val Lys Val Leu Trp Asp Phe Val Phe Glu Asp			
100	105	110	
Ser Leu Gly Pro Tyr Ala Arg Val Lys Arg Val Tyr Arg Leu Ala Lys			
115	120	125	
Asp Gly Leu			
130	131		

<210> 1232  
<211> 71  
<212>Amino acid  
<213> Homo sapiens

	<400> 1232		
Gln Glu Ser Gly Phe Ser Cys Lys Gly Pro Gly Gln Asn Val Ala Val			
1	5	10	15
Thr Arg Ala His Pro Asp Ser Gln Gly Arg Arg Arg Arg Pro Glu Arg			
20	25	30	
Gly Ala Arg Gly Gly Gln Val Phe Tyr Asn Ser Glu Tyr Gly Glu Leu			

	35		40		45
Ser	Glu	Pro	Ser	Glu	Glu
				Asp	His
				Cys	Ser
				Pro	Ala
					Arg
					Val
					Thr
50				55	
Phe	Phe	Thr	Asp	Asn	Ser
					Tyr
65				70	71

<210> 1233  
<211> 146  
<212>Amino acid  
<213> Homo sapiens

	<400> 1233															
Val	Ile	Val	His	Ala	Arg	Pro	Ile	Arg	Thr	Arg	Ala	Ser	Lys	Tyr	Tyr	
1																
					5			10						15		
Ile	Pro	Glu	Ala	Val	Tyr	Gly	Leu	Pro	Ala	Tyr	Pro	Ala	Tyr	Ala	Gly	
					20			25						30		
Gly	Gly	Gly	Phe	Val	Leu	Ser	Gly	Ala	Thr	Leu	His	Arg	Leu	Ala	Gly	
					35			40						45		
Ala	Cys	Ala	Gln	Val	Glu	Leu	Phe	Pro	Ile	Asp	Asp	Val	Phe	Leu	Gly	
					50			55						60		
Met	Cys	Leu	Gln	Arg	Leu	Arg	Leu	Thr	Pro	Glu	Pro	His	Pro	Ala	Phe	
					65			70						75		
Arg	Thr	Phe	Gly	Ile	Pro	Gln	Pro	Ser	Ala	Ala	Pro	His	Leu	Ser	Thr	
															80	
					85			90						95		
Phe	Asp	Pro	Cys	Phe	Tyr	Arg	Glu	Leu	Val	Val	Val	His	Gly	Leu	Ser	
					100			105						110		
Ala	Ala	Asp	Ile	Trp	Leu	Met	Trp	Arg	Leu	Leu	His	Gly	Pro	His	Gly	
					115			120						125		
Pro	Ala	Cys	Ala	His	Pro	Gln	Pro	Val	Ala	Ala	Gly	Pro	Phe	Gln	Trp	
					130			135						140		
Asp	Ser															
145	146															

<210> 1234  
<211> 299  
<212>Amino acid  
<213> Homo sapiens

	<400> 1234														
Met	Ala	Ser	Ala	Ala	Cys	Ser	Met	Asp	Pro	Ile	Asp	Ser	Phe	Glu	Leu
1							5			10				15	
Leu	Asp	Leu	Leu	Phe	Asp	Arg	Gln	Asp	Gly	Ile	Leu	Arg	His	Val	Glu
							20			25				30	
Leu	Gly	Glu	Gly	Trp	Gly	His	Val	Lys	Asp	Gln	Val	Leu	Pro	Asn	Pro
					35			40						45	
Asp	Ser	Asp	Asp	Phe	Leu	Ser	Ser	Ile	Leu	Gly	Ser	Gly	Asp	Ser	Leu
					50			55						60	
Pro	Ser	Ser	Pro	Leu	Trp	Ser	Pro	Glu	Gly	Ser	Asp	Ser	Gly	Ile	Ser
					65			70			75			80	
Glu	Asp	Leu	Pro	Ser	Asp	Pro	Gln	Asp	Thr	Pro	Pro	Arg	Ser	Gly	Pro
					85			90						95	
Ala	Thr	Ser	Pro	Ala	Gly	Cys	His	Pro	Ala	Gln	Pro	Gly	Lys	Gly	Pro
					100			105						110	
Cys	Leu	Ser	Tyr	His	Pro	Gly	Asn	Ser	Cys	Ser	Thr	Thr	Pro	Gly	

115	120	125
Pro Val Ile Gln Gln Gln His His Leu Gly Ala Ser Tyr Leu Leu Arg		
130	135	140
Pro Gly Ala Gly His Cys Glu Leu Val Leu Thr Glu Asp Glu Lys		
145	150	155
Lys Leu Leu Ala Lys Glu Gly Ile Thr Leu Pro Thr Gln Leu Pro Leu		160
165	170	175
Thr Lys Tyr Glu Glu Arg Val Leu Lys Ile Arg Arg Lys Ile Arg		
180	185	190
Asn Lys Gln Ser Ala Gln Glu Ser Arg Lys Lys Lys Lys Glu Tyr Ile		
195	200	205
Asp Gly Leu Thr Arg Ser Cys Cys Pro Leu Pro Ser Ser Ser		
210	215	220
Ser Pro Pro Ser Ala Leu Leu Ala Pro Thr Lys Pro Arg Ala Leu Gly		
225	230	235
Thr Leu Arg Leu Tyr Glu Cys Ser Pro Glu Leu Cys Thr Thr Met Leu		240
245	250	255
Pro Pro Ala Trp Ile Leu Met Leu Cys Gln Ala Pro Arg Pro Gln Asp		
260	265	270
Pro Asp Pro Arg Leu Thr Gln Pro Glu Lys Ser Leu Gln Glu Ala Pro		
275	280	285
Gly Gln Thr Gly Ala Ser Arg Thr Pro Arg Thr		
290	295	299

<210> 1235  
<211> 1098  
<212> Amino acid  
<213> Homo sapiens

<400> 1235			
Ala Arg Gly Arg Arg Ser Arg Pro Val Trp Ala Ala Ser Trp Gly Gly			
1	5	10	15
Arg Gly Arg Pro Ala Ala Arg Arg Arg Pro Arg Gly Leu Ala Ala Thr			
20	25	30	
Met Gly Phe Glu Leu Asp Arg Phe Asp Gly Asp Val Asp Pro Asp Leu			
35	40	45	
Lys Cys Ala Leu Cys His Lys Val Leu Glu Asp Pro Leu Thr Thr Pro			
50	55	60	
Cys Gly His Val Phe Cys Ala Gly Cys Val Leu Pro Trp Val Val Gln			
65	70	75	80
Glu Gly Ser Cys Pro Ala Arg Cys Arg Gly Arg Leu Ser Ala Lys Glu			
85	90	95	
Leu Asn His Val Leu Pro Leu Lys Arg Leu Ile Leu Lys Leu Asp Ile			
100	105	110	
Lys Cys Ala Tyr Ala Thr Arg Gly Cys Gly Arg Val Val Lys Leu Gln			
115	120	125	
Gln Leu Pro Glu His Leu Glu Arg Cys Asp Phe Ala Pro Ala Arg Cys			
130	135	140	
Arg His Ala Gly Cys Gly Gln Val Leu Leu Arg Arg Asp Val Glu Ala			
145	150	155	160
His Met Arg Asp Ala Cys Asp Ala Arg Pro Val Gly Arg Cys Gln Glu			
165	170	175	
Gly Cys Gly Leu Pro Leu Thr His Gly Glu Gln Arg Ala Gly Gly His			
180	185	190	
Cys Cys Ala Arg Ala Leu Arg Ala His Asn Gly Ala Leu Gln Ala Arg			
195	200	205	
Leu Gly Ala Leu His Lys Ala Leu Lys Glu Ala Leu Arg Ala Gly			
210	215	220	
Lys Arg Glu Lys Ser Leu Val Ala Gln Leu Ala Ala Gln Leu Glu			

225	230	235	240
Leu Gln Met Thr Ala Leu Arg Tyr Gln Lys Phe Thr Glu Tyr Ser			
245	250	255	
Ala Arg Leu Asp Ser Leu Ser Arg Cys Val Ala Ala Pro Pro Gly Gly			
260	265	270	
Lys Gly Glu Glu Thr Lys Ser Leu Thr Leu Val Leu His Arg Asp Ser			
275	280	285	
Gly Ser Leu Gly Phe Asn Ile Ile Gly Gly Arg Pro Ser Val Asp Asn			
290	295	300	
His Asp Gly Ser Ser Ser Glu Gly Ile Phe Val Ser Lys Ile Val Asp			
305	310	315	320
Ser Gly Pro Ala Ala Lys Glu Gly Gly Leu Gln Ile His Asp Arg Ile			
325	330	335	
Ile Glu Val Asn Gly Arg Asp Leu Ser Arg Ala Thr His Asp Gln Ala			
340	345	350	
Val Glu Ala Phe Lys Thr Ala Lys Glu Pro Ile Val Val Gln Val Leu			
355	360	365	
Arg Arg Thr Pro Arg Thr Lys Met Phe Thr Pro Pro Ser Glu Ser Gln			
370	375	380	
Leu Val Asp Thr Gly Thr Gln Thr Asp Ile Thr Phe Glu His Ile Met			
385	390	395	400
Ala Leu Thr Lys Met Ser Ser Pro Ser Pro Pro Val Leu Asp Pro Tyr			
405	410	415	
Leu Leu Pro Glu Glu His Pro Ser Ala His Glu Tyr Tyr Asp Pro Asn			
420	425	430	
Asp Tyr Ile Gly Asp Ile His Gln Glu Met Asp Arg Glu Glu Leu Glu			
435	440	445	
Leu Glu Glu Val Asp Leu Tyr Arg Met Asn Ser Gln Asp Lys Leu Gly			
450	455	460	
Leu Thr Val Cys Tyr Arg Thr Asp Asp Glu Asp Asp Ile Gly Ile Tyr			
465	470	475	480
Ile Ser Glu Ile Asp Pro Asn Ser Ile Ala Ala Lys Asp Gly Arg Ile			
485	490	495	
Arg Glu Gly Asp Arg Ile Ile Gln Ile Asn Gly Ile Glu Val Gln Asn			
500	505	510	
Arg Glu Glu Ala Val Ala Leu Leu Thr Ser Glu Glu Asn Lys Asn Phe			
515	520	525	
Ser Leu Leu Ile Ala Arg Ala Glu Leu Gln Leu Asp Glu Gly Trp Met			
530	535	540	
Asp Asp Asp Arg Asn Asp Phe Leu Asp Asp Leu His Met Asp Met Leu			
545	550	555	560
Glù Glu Gln His His Gln Ala Met Gln Phe Thr Ala Ser Val Leu Gln			
565	570	575	
Gln Lys His Asp Glu Asp Gly Gly Thr Thr Asp Thr Ala Thr Ile			
580	585	590	
Leu Ser Asn Gln His Glu Lys Asp Ser Gly Val Gly Arg Thr Asp Glu			
595	600	605	
Ser Thr Arg Asn Asp Glu Ser Ser Glu Gln Glu Asn Asn Gly Asp Asp			
610	615	620	
Ala Thr Ala Ser Ser Asn Pro Leu Ala Gly Gln Arg Lys Leu Thr Cys			
625	630	635	640
Ser Gln Asp Thr Leu Gly Ser Gly Asp Leu Pro Phe Ser Asn Lys Ser			
645	650	655	
Phe Ile Ser Pro Glu Cys Thr Gly Ala Ala Tyr Leu Gly Ile Pro Val			
660	665	670	
Asp Glu Cys Glu Arg Phe Arg Glu Leu Leu Glu Leu Lys Cys Gln Val			
675	680	685	
Lys Ser Ala Thr Pro Tyr Gly Leu Tyr Tyr Pro Ser Gly Pro Leu Asp			
690	695	700	
Ala Gly Lys Ser Asp Pro Glu Ser Val Asp Lys Glu Leu Glu Leu Leu			
705	710	715	720
Asn Glu Glu Leu Arg Ser Ile Glu Leu Glu Cys Leu Ser Ile Val Arg			
725	730	735	
Ala His Lys Met Gln Gln Leu Lys Glu Gln Tyr Arg Glu Ser Trp Met			

740	745	750
Leu His Asn Ser Gly Phe Arg Asn Tyr Asn Thr Ser Ile Asp Val Arg		
755	760	765
Arg His Glu Leu Ser Asp Ile Thr Glu Leu Pro Glu Lys Ser Asp Lys		
770	775	780
Asp Ser Ser Ser Ala Tyr Asn Thr Gly Glu Ser Cys Arg Ser Thr Pro		
785	790	795
Leu Thr Leu Glu Ile Ser Pro Asp Asn Ser Leu Arg Arg Ala Ala Glu		
805	810	815
Gly Ile Ser Cys Pro Ser Ser Glu Gly Ala Val Gly Thr Thr Glu Ala		
820	825	830
Tyr Gly Pro Ala Ser Lys Asn Leu Leu Ser Ile Thr Glu Asp Pro Glu		
835	840	845
Val Gly Thr Pro Thr Tyr Ser Pro Ser Leu Lys Glu Leu Asp Pro Asn		
850	855	860
Gln Pro Leu Glu Ser Lys Glu Arg Arg Ala Ser Asp Gly Ser Arg Ser		
865	870	875
Pro Thr Pro Ser Gln Lys Leu Gly Ser Ala Tyr Leu Pro Ser Tyr His		
885	890	895
His Ser Pro Tyr Lys His Ala His Ile Pro Ala His Ala Gln His Tyr		
900	905	910
Gln Ser Tyr Met Gln Leu Ile Gln Gln Lys Ser Ala Val Glu Tyr Ala		
915	920	925
Gln Ser Gln Met Ser Leu Val Ser Met Cys Lys Asp Leu Ser Ser Pro		
930	935	940
Thr Pro Ser Glu Pro Arg Met Glu Trp Lys Val Lys Ile Arg Ser Asp		
945	950	955
Gly Thr Arg Tyr Ile Thr Lys Arg Pro Val Arg Asp Arg Leu Leu Arg		
965	970	975
Glu Arg Ala Leu Lys Ile Arg Glu Glu Arg Ser Gly Met Thr Thr Asp		
980	985	990
Asp Asp Ala Val Ser Glu Met Lys Met Gly Arg Tyr Trp Ser Lys Glu		
995	1000	1005
Glu Arg Lys Gln His Leu Val Lys Ala Lys Glu Gln Arg Arg Arg		
1010	1015	1020
Glu Phe Met Met Gln Ser Arg Leu Asp Cys Leu Lys Glu Gln Ala		
1025	1030	1035
Ala Asp Asp Arg Lys Glu Met Asn Ile Leu Glu Leu Ser His Lys		
1045	1050	1055
Met Met Lys Lys Arg Asn Lys Lys Ile Phe Asp Asn Trp Met Thr Ile		
1060	1065	1070
Gln Glu Leu Leu Thr His Gly Thr Lys Ser Pro Asp Gly Thr Arg Val		
1075	1080	1085
Tyr Asn Ser Phe Leu Ser Val Thr Thr Val		
1090	1095	1098

<210> 1236  
 <211> 51  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1236
Phe Phe Phe Leu Val Glu Met Gly Phe Cys His Val Gly Gln Gly Gly
1 5 10 15
Leu Thr Leu Ile Gly Ser Ser Asn Leu Pro Ala Ser Ala Ser Lys Ser
20 25 30
Ala Gly Ile Thr Gly Val Ser His Cys Ala Arg Pro Asp Phe Lys Ser
35 40 45
Cys Val Glu

50 51

<210> 1237  
<211> 70  
<212>Amino acid  
<213> Homo sapiens

<400> 1237  
Leu Ala Gly Arg Lys Val Leu Leu Phe Val Ser Gly Tyr Val Val Gly  
1 5 10 15  
Trp Gly Pro Ile Thr Trp Leu Leu Met Ser Glu Val Leu Pro Leu Arg  
20 25 30  
Ala Arg Gly Val Ala Ser Gly Leu Cys Val Leu Ala Ser Trp Leu Thr  
35 40 45  
Ala Phe Val Leu Thr Lys Ser Phe Leu Pro Gly Gly Val Ser Val Gln  
50 55 60  
Pro Gln Ala Pro Gly Pro  
65 70

<210> 1238  
<211> 114  
<212>Amino acid  
<213> Homo sapiens

<400> 1238  
Phe Trp Ala Pro Gly Pro Pro Gly Val Gly Ala Ala Val Gly Asp Ala  
1 5 10 15  
Ser Thr Arg Ser Leu Arg Glu Ser Cys Pro Ser Pro Ser Pro Gly Arg  
20 25 30  
Leu Arg Arg Thr Thr Ala Pro Trp Ser Ser Gln Ala Arg Ala Ala Ala  
35 40 45  
Pro Ala Pro Ser Ser Ser Cys Arg Gly Pro Asp Gly Ala Ser Ser Pro  
50 55 60  
Arg Asp Leu Pro Trp Arg Pro Trp Lys Ile Leu Arg Arg Thr Pro Leu  
65 70 75 80  
Ser Gly Asp Val Glu Leu Ser Gln Val His Pro Asp Gln Arg Ile Leu  
85 90 95  
Arg Arg Phe Ile Leu Ser Arg Thr Cys Gly Asn Thr Ile Pro Gly Met  
100 105 110  
Ala Glu  
114

<210> 1239  
<211> 174  
<212>Amino acid  
<213> Homo sapiens

<400> 1239  
Met Arg Arg Phe Ile Ser Lys Val Tyr Ser Phe Pro Met Arg Lys Leu

1	5	10	15
Ile Leu Phe Leu Val Phe Pro Val Val Arg Gln Thr Pro Thr Gln His	20	25	30
Phe Lys Asn Gln Phe Pro Ala Leu His Trp Glu His Glu Leu Gly Leu	35	40	45
Ala Phe Thr Lys Asn Arg Met Asn Tyr Thr Asn Lys Phe Leu Leu Ile	50	55	60
Pro Glu Ser Gly Asp Tyr Phe Ile Tyr Ser Gln Val Thr Phe Arg Gly	65	70	75
Met Thr Ser Glu Cys Ser Glu Ile Arg Gln Ala Gly Arg Pro Asn Lys	85	90	95
Pro Asp Ser Ile Thr Val Val Ile Thr Lys Val Thr Asp Ser Tyr Pro	100	105	110
Glu Pro Thr Gln Leu Leu Met Gly Thr Lys Ser Val Cys Glu Val Gly	115	120	125
Ser Asn Trp Phe Gln Pro Ile Tyr Leu Gly Ala Met Phe Ser Leu Gln	130	135	140
Glu Gly Asp Lys Leu Met Val Asn Val Ser Asp Ile Ser Leu Val Asp	145	150	155
Tyr Thr Lys Glu Asp Lys Thr Phe Phe Gly Ala Phe Leu Leu	165	170	174

<210> 1240  
<211> 425  
<212>Amino acid  
<213> Homo sapiens

<400> 1240			
Phe Val Trp Asp Glu Val Ala Gln Arg Ser Gly Cys Glu Glu Arg Trp	1	5	10
Leu Val Ile Asp Arg Lys Val Tyr Asn Ile Ser Glu Phe Thr Arg Arg	20	25	30
His Pro Gly Gly Ser Arg Val Ile Ser His Tyr Ala Gly Gln Asp Ala	35	40	45
Thr Asp Pro Phe Val Ala Phe His Ile Asn Lys Gly Leu Val Lys Lys	50	55	60
Tyr Met Asn Ser Leu Leu Ile Gly Glu Leu Ser Pro Glu Gln Pro Ser	65	70	75
Phe Glu Pro Thr Lys Asn Lys Glu Leu Thr Asp Glu Phe Arg Glu Leu	85	90	95
Arg Ala Thr Val Glu Arg Met Gly Leu Met Lys Ala Asn His Val Phe	100	105	110
Phe Leu Leu Tyr Leu Leu His Ile Leu Leu Asp Gly Ala Ala Trp	115	120	125
Leu Thr Leu Trp Val Phe Gly Thr Ser Phe Leu Pro Phe Leu Leu Cys	130	135	140
Ala Val Leu Leu Ser Ala Val Gln Ala Gln Ala Gly Trp Leu Gln His	145	150	155
Asp Phe Gly His Leu Ser Val Phe Ser Thr Ser Lys Trp Asn His Leu	165	170	175
Leu His His Phe Val Ile Gly His Leu Lys Gly Ala Pro Ala Ser Trp	180	185	190
Trp Asn His Met His Phe Gln His His Ala Lys Pro Asn Cys Phe Arg	195	200	205
Lys Asp Pro Asp Ile Asn Met His Pro Phe Phe Phe Ala Leu Gly Lys	210	215	220
Ile Leu Ser Val Glu Leu Gly Lys Gln Lys Lys Lys Tyr Met Pro Tyr	225	230	235
Asn His Gln His Lys Tyr Phe Phe Leu Ile Gly Pro Pro Ala Leu Leu			240

245	245	250	255
Pro Leu Tyr Phe Gln Trp Tyr Ile Phe Tyr Phe Val Ile Gln Arg Lys			
260	265	270	
Lys Trp Val Asp Leu Ala Trp Met Ile Thr Phe Tyr Val Arg Phe Phe			
275	280	285	
Leu Thr Tyr Val Pro Leu Leu Gly Leu Lys Ala Phe Leu Gly Leu Phe			
290	295	300	
Phe Ile Val Arg Phe Leu Glu Ser Asn Trp Phe Val Trp Val Thr Gln			
305	310	315	320
Met Asn His Ile Pro Met His Ile Asp His Asp Arg Asn Met Asp Trp			
325	330	335	
Val Ser Thr Gln Leu Gln Ala Thr Cys Asn Val His Lys Ser Ala Phe			
340	345	350	
Asn Asp Trp Phe Ser Gly His Leu Asn Phe Gln Ile Glu His His Leu			
355	360	365	
Phe Pro Thr Met Pro Arg His Asn Tyr His Lys Val Ala Pro Leu Val			
370	375	380	
Gln Ser Leu Cys Ala Lys His Gly Ile Glu Tyr Gln Ser Lys Pro Leu			
385	390	395	400
Leu Ser Ala Phe Ala Asp Ile Ile His Ser Leu Lys Glu Ser Gly Gln			
405	410	415	
Leu Trp Leu Asp Ala Tyr Leu His Gln			
420	425		

<210> 1241  
<211> 152  
<212>Amino acid  
<213> Homo sapiens

<400> 1241			
Gln Cys Gly Gly Ile Pro Tyr Asn Thr Thr Gln Phe Leu Met Asn Asp			
1	5	10	15
Arg Asp Pro Glu Glu Pro Asn Leu Asp Val Pro His Gly Ile Ser His			
20	25	30	
Pro Gly Ser Ser Gly Glu Ser Glu Ala Gly Asp Ser Asp Gly Arg Gly			
35	40	45	
Arg Ala His Gly Glu Phe Gln Arg Lys Asp Phe Ser Glu Thr Tyr Glu			
50	55	60	
Arg Phe His Thr Glu Ser Leu Gln Gly Arg Ser Lys Gln Glu Leu Val			
65	70	75	80
Arg Asp Tyr Leu Glu Leu Glu Lys Arg Leu Ser Gln Ala Glu Glu Glu			
85	90	95	
Thr Arg Arg Leu Gln Gln Leu Gln Ala Cys Thr Gly Gln Gln Ser Cys			
100	105	110	
Arg Gln Val Glu Glu Leu Ala Ala Glu Val Gln Arg Leu Arg Thr Glu			
115	120	125	
Asn Gln Arg Leu Arg Gln Glu Asn Gln Met Trp Asn Arg Glu Gly Cys			
130	135	140	
Arg Cys Asp Glu Glu Pro Gly Thr			
145	150	152	

<210> 1242  
<211> 191  
<212>Amino acid  
<213> Homo sapiens

<400> 1242  
 Ser Pro Glu Arg Ser Ser Leu Ser Val Gly Arg Glu Lys Ala Met Glu  
 1 5 10 15  
 Val Pro Pro Pro Ala Pro Arg Ser Phe Leu Cys Arg Ala Leu Cys Leu  
 20 25 30  
 Phe Pro Arg Val Phe Ala Ala Glu Ala Val Thr Ala Asp Ser Glu Val  
 35 40 45  
 Leu Glu Glu Arg Gln Lys Arg Leu Pro Tyr Val Pro Glu Pro Tyr Tyr  
 50 55 60  
 Pro Glu Ser Gly Trp Asp Arg Leu Arg Glu Leu Phe Gly Lys Asp Val  
 65 70 75 80  
 Thr Gly Ser Leu Phe Arg Ile Asn Val Gly Leu Arg Gly Leu Val Ala  
 85 90 95  
 Gly Gly Ile Ile Gly Ala Leu Leu Gly Thr Pro Val Gly Leu Leu  
 100 105 110  
 Met Ala Phe Gln Lys Tyr Ser Gly Glu Thr Val Gln Glu Arg Lys Gln  
 115 120 125  
 Lys Asp Arg Lys Ala Leu His Glu Leu Lys Leu Glu Glu Trp Lys Gly  
 130 135 140  
 Arg Ile Gln Val Thr Glu His Leu Pro Glu Lys Ile Glu Ser Ser Leu  
 145 150 155 160  
 Gln Glu Asp Glu Pro Glu Asn Asp Ala Lys Lys Ile Glu Ala Leu Leu  
 165 170 175  
 Asn Leu Pro Arg Asn Pro Ser Val Ile Asp Lys Gln Asp Lys Asp  
 180 185 190 191

<210> 1243  
<211> 381  
<212>Amino acid  
<213> Homo sapiens

<400> 1243  
 Arg Ser Leu Gly Leu Ala Val Thr Glu Met Val Pro Trp Val Arg Thr  
 1 5 10 15  
 Met Gly Gln Lys Leu Lys Gln Arg Leu Arg Leu Asp Val Gly Arg Glu  
 20 25 30  
 Ile Cys Arg Gln Tyr Pro Leu Phe Cys Phe Leu Leu Cys Leu Ser  
 35 40 45  
 Ala Ala Ser Leu Leu Leu Asn Arg Tyr Ile His Ile Leu Met Ile Phe  
 50 55 60  
 Trp Ser Phe Val Ala Gly Val Val Thr Phe Tyr Cys Ser Leu Gly Pro  
 65 70 75 80  
 Asp Ser Leu Leu Pro Asn Ile Phe Phe Thr Ile Lys Tyr Lys Pro Lys  
 85 90 95  
 Gln Leu Gly Leu Gln Glu Leu Phe Pro Gln Gly His Ser Cys Ala Val  
 100 105 110  
 Cys Gly Lys Val Lys Cys Lys Arg His Arg Pro Ser Leu Leu Glu  
 115 120 125  
 Asn Tyr Gln Pro Trp Leu Asp Leu Lys Ile Ser Ser Lys Val Asp Ala  
 130 135 140  
 Ser Leu Ser Glu Val Leu Glu Leu Val Leu Glu Asn Phe Val Tyr Pro  
 145 150 155 160  
 Trp Tyr Arg Asp Val Thr Asp Asp Glu Ser Phe Val Asp Glu Leu Arg  
 165 170 175  
 Ile Thr Leu Arg Phe Phe Ala Ser Val Leu Ile Arg Arg Ile His Lys  
 180 185 190  
 Val Asp Ile Pro Ser Ile Ile Thr Lys Lys Leu Leu Lys Ala Ala Met

195	200	205
Lys His Ile Glu Val Ile Val Lys Ala Arg Gln Lys Val Lys Asn Thr	210	215
220		
Glu Phe Leu Gln Gln Ala Ala Leu Glu Glu Tyr Gly Pro Glu Leu His	225	230
235		240
Val Ala Leu Arg Ser Arg Arg Asp Glu Leu His Tyr Leu Arg Lys Leu	245	250
255		
Thr Glu Leu Leu Phe Pro Tyr Ile Leu Pro Pro Lys Ala Thr Asp Cys	260	265
270		
Arg Ser Leu Thr Leu Leu Ile Arg Glu Ile Leu Ser Gly Ser Val Phe	275	280
285		
Leu Pro Ser Leu Asp Phe Leu Ala Asp Pro Asp Thr Val Asn His Leu	290	295
300		
Leu Ile Ile Phe Ile Asp Asp Ser Pro Pro Glu Lys Ala Thr Glu Pro	295	310
315		320
Ala Ser Pro Leu Val Pro Phe Leu Gln Lys Phe Ala Glu Pro Arg Asn	325	330
335		
Lys Lys Pro Ser Val Leu Lys Leu Glu Leu Lys Gln Ile Arg Glu Cln	340	345
350		
Gln Asp Leu Leu Phe Arg Phe Met Asn Phe Leu Lys Gln Glu Gly Ala	355	360
365		
Val His Val Leu His Val Leu Phe Asp Cys Gly Gly Ile	370	375
380	381	

<210> 1244  
<211> 371  
<212>Amino acid  
<213> Homo sapiens

<400> 1244
Gln Ser Leu Ala Glu Val Leu Gln Gln Leu Gly Ala Ser Ser Glu Leu
1 5 10 15
Gln Ala Val Leu Ser Tyr Ile Phe Pro Thr Tyr Gly Val Thr Pro Asn
20 25 30
His Ser Ala Phe Ser Met His Ala Leu Leu Val Asn His Tyr Met Lys
35 40 45
Gly Gly Phe Tyr Pro Arg Gly Val Thr Ser Glu Ile Ala Phe His Thr
50 55 60
Ile Pro Val Ile Gln Arg Ala Gly Gly Ala Val Leu Thr Lys Ala Thr
65 70 75 80
Val Gln Ser Val Leu Leu Asp Ser Ala Gly Lys Ala Cys Gly Val Ser
85 90 95
Val Lys Lys Gly His Glu Leu Val Asn Ile Tyr Cys Pro Ile Val Val
100 105 110
Ser Asn Ala Gly Leu Phe Asn Thr Tyr Glu His Leu Leu Pro Gly Asn
115 120 125
Ala Arg Cys Leu Pro Gly Val Lys Gln Gln Leu Gly Thr Val Arg Pro
130 135 140
Gly Leu Gly Met Thr Ser Val Phe Ile Cys Leu Arg Gly Thr Lys Glu
145 150 155 160
Asp Leu His Leu Pro Ser Thr Asn Tyr Tyr Val Tyr Tyr Asp Thr Asp
165 170 175
Met Asp Gln Ala Met Glu Arg Tyr Val Ser Met Pro Arg Glu Glu Ala
180 185 190
Ala Glu His Ile Pro Leu Leu Phe Phe Ala Phe Pro Ser Ala Lys Asp
195 200 205
Pro Thr Trp Glu Asp Arg Phe Pro Gly Arg Ser Thr Met Ile Met Leu
210 215 220
Ile Pro Thr Ala Tyr Glu Trp Phe Glu Glu Trp Gln Ala Glu Leu Lys

225	230	235	240
Gly Lys Arg Gly Ser Asp Tyr Glu Thr Phe Lys Asn Ser Phe Val Glu			
245	250	255	
Ala Ser Met Ser Val Val Leu Lys Leu Phe Pro Gln Leu Glu Gly Lys			
260	265	270	
Val Glu Ser Val Thr Ala Gly Ser Pro Leu Thr Asn Gln Phe Tyr Leu			
275	280	285	
Ala Ala Pro Arg Gly Ala Cys Tyr Gly Ala Asp His Asp Leu Gly Arg			
290	295	300	
Leu His Pro Cys Val Met Ala Ser Leu Arg Ala Gln Ser Pro Ile Pro			
305	310	315	320
Asn Leu Tyr Leu Thr Gly Gln Asp Ile Phe Thr Cys Gly Leu Val Gly			
325	330	335	
Ala Leu Gln Gly Ala Leu Leu Cys Ser Ser Thr Ile Leu Lys Arg Asn			
340	345	350	
Leu Tyr Ser Asp Leu Lys Asn Leu Asp Ser Arg Ile Arg Ala Gln Lys			
355	360	365	
Lys Lys Asn			
370 371			

<210> 1245  
 <211> 295  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1245			
Arg Pro Gln Glu Thr Arg Val Leu Gln Val Ser Cys Gly Arg Ala His			
1	5	10	15
Ser Leu Val Leu Thr Asp Arg Glu Gly Val Phe Ser Met Gly Asn Asn			
20	25	30	
Ser Tyr Gly Gln Cys Gly Arg Lys Val Val Glu Asn Glu Ile Tyr Ser			
35	40	45	
Glu Ser His Arg Val His Arg Met Gln Asp Phe Asp Gly Gln Val Val			
50	55	60	
Gln Val Ala Cys Gly Gln Asp His Ser Leu Phe Leu Thr Asp Lys Gly			
65	70	75	80
Glu Val Tyr Ser Cys Gly Trp Gly Ala Asp Gly Gln Thr Gly Leu Gly			
85	90	95	
His Tyr Asn Ile Thr Ser Ser Pro Thr Lys Leu Gly Gly Asp Leu Ala			
100	105	110	
Gly Val Asn Val Ile Gln Val Ala Thr Tyr Gly Asp Cys Cys Leu Ala			
115	120	125	
Val Ser Ala Asp Gly Gly Leu Phe Gly Trp Gly Asn Ser Glu Tyr Leu			
130	135	140	
Gln Leu Ala Ser Val Thr Asp Ser Thr Gln Val Asn Val Pro Arg Cys			
145	150	155	160
Leu His Phe Ser Gly Val Gly Lys Val Arg Gln Ala Ala Cys Gly Gly			
165	170	175	
Thr Gly Cys Ala Val Leu Asn Gly Glu Gly His Val Phe Val Trp Gly			
180	185	190	
Tyr Gly Ile Leu Gly Lys Gly Pro Asn Leu Val Glu Ser Ala Val Pro			
195	200	205	
Glu Met Ile Pro Pro Thr Leu Phe Gly Leu Thr Glu Phe Asn Pro Glu			
210	215	220	
Ile Gln Val Ser Arg Ile Arg Cys Gly Leu Ser His Phe Ala Ala Leu			
225	230	235	240
Thr Asn Lys Gly Glu Leu Phe Val Trp Gly Lys Asn Ile Arg Gly Cys			
245	250	255	
Leu Gly Ile Gly Arg Leu Glu Asp Gln Tyr Phe Pro Trp Arg Val Thr			

260	265	270
Met Pro Gly Glu Pro Val Asp Val Ala Cys Gly Val Asp His Met Val		
275	280	285
Thr Leu Ala Lys Ser Phe Ile		
290	295	

<210> 1246  
<211> 172  
<212>Amino acid  
<213> Homo sapiens

<400> 1246		
Leu Pro Phe Arg Glu Trp Leu Met Ile Val Val Ser Leu Ser Ala Ala		
1	5	10
Ala Val Ala Ala Ala Phe Met Ala Lys Cys Arg Met Val Leu Ser Ser		
20	25	30
Arg Tyr Phe Cys Ser His Phe Val Met Ser Ala Ser Arg Ala Arg Ile		
35	40	45
Arg Ser Ser Phe Ser Arg Thr Ser Ser Arg Arg Ala Gly Ala Leu Tyr		
50	55	60
Ser Gly Met Leu Ala Gly Trp Pro Phe Pro Cys Phe Cys Trp Val Leu		
65	70	75
Ser Ala Ser Ser Leu Ser Ser Gln Val Arg Ser Leu Arg Ser Ile		
85	90	95
Cys Ser Arg Phe Ser His Ala Asp Cys Ser Trp Val Arg Ala Cys Cys		
100	105	110
Ser Phe Ser Thr Phe Ser Thr Tyr Ala Cys Phe Ser Arg Asn Ser Ser		
115	120	125
Ser Ser Leu Met Thr Leu Ala Trp Ala Leu Leu Lys Ala Trp Ser Arg		
130	135	140
Ile Ser Met Cys Leu Arg Trp Ser Ser Leu Ala Val Arg Thr Ala Ala		
145	150	155
Asn Ser Ile Ser Asn Phe Ser Phe Ser Phe Lys Asn		
165	170	172

<210> 1247  
<211> 361  
<212>Amino acid  
<213> Homo sapiens

<400> 1247		
Met Gln Ala Val Arg Ala Thr Ala Ser Gln Ser Leu Ser Cys Ala Arg		
1	5	10
Ala Pro Arg Glu Pro Thr Gln His Ala Leu Arg Ala His Trp Phe Pro		
20	25	30
Pro Ala Ala Ala Val Gln Pro Ser Pro His Ser Gly Val Ala Ala Ala		
35	40	45
Ala Gly Thr Trp Ser Ser Ala Phe Arg Gly Glu His Pro Leu Val Ser		
50	55	60
Ser Gly Leu Leu Leu Gly Val Arg Glu Gln Ser Phe Arg Leu Leu Arg		
65	70	75
Ser Lys Ala Gly Thr His Met Tyr Leu Glu His Thr Ser His Cys Pro		
85	90	95
His His Asp Asp Asp Thr Ala Met Asp Thr Pro Leu Pro Arg Pro Arg		

100	105	110
Pro Leu Leu Ala Val Glu Arg Thr Gly Gln Arg Pro Leu Trp Ala Pro		
115	120	125
Ser Leu Glu Leu Pro Lys Pro Asp Met Gln Pro Leu Pro Ala Gly Ala		
130	135	140
Phe Leu Glu Glu Val Ala Glu Gly Thr Pro Ala Gln Thr Glu Ser Glu		
145	150	155
Pro Lys Val Leu Asp Pro Glu Glu Asp Leu Leu Cys Ile Ala Lys Thr		160
165	170	175
Phe Ser Tyr Leu Arg Glu Ser Gly Trp Tyr Trp Gly Ser Ile Thr Ala		
180	185	190
Ser Glu Ala Arg Gln His Leu Gln Lys Met Pro Glu Gly Thr Phe Leu		
195	200	205
Val Arg Asp Ser Thr His Pro Ser Tyr Leu Phe Thr Leu Ser Val Lys		
210	215	220
Thr Thr Arg Gly Pro Thr Asn Val Arg Ile Glu Tyr Ala Asp Ser Ser		
225	230	235
Phe Arg Leu Asp Ser Asn Cys Leu Ser Arg Pro Arg Ile Leu Ala Phe		240
245	250	255
Pro Asp Val Val Ser Leu Val Gln His Tyr Val Ala Ser Cys Thr Ala		
260	265	270
Asp Thr Arg Ser Asp Ser Pro Asp Pro Ala Pro Thr Pro Ala Leu Pro		
275	280	285
Met Pro Lys Glu Asp Ala Pro Ser Asp Pro Ala Leu Pro Ala Pro Pro		
290	295	300
Pro Ala Thr Ala Val His Leu Lys Leu Val Gln Pro Phe Val Arg Arg		
305	310	315
Ser Ser Ala Arg Ser Leu Gln His Leu Cys Arg Leu Val Ile Asn Arg		320
325	330	335
Leu Val Ala Asp Val Asp Cys Leu Pro Leu Pro Arg Arg Met Ala Asp		
340	345	350
Tyr Leu Arg Gln Tyr Pro Phe Gln Leu		
355	360	361

<210> 1248  
 <211> 279  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1248			
Phe Val Asp Ile Phe Gln Arg Trp Lys Glu Cys Arg Gly Lys Ser Pro			
1	5	10	15
Ala Gln Ala Glu Leu Ser Tyr Leu Asp Lys Ala Lys Trp Leu Glu Met			
20	25	30	
Tyr Gly Val Asp Met His Val Val Arg Gly Arg Asp Gly Cys Glu Tyr			
35	40	45	
Ser Leu Gly Leu Thr Pro Thr Gly Ile Leu Ile Phe Glu Gly Ala Asn			
50	55	60	
Lys Ile Gly Leu Phe Phe Trp Pro Lys Ile Thr Lys Met Asp Phe Lys			
65	70	75	80
Lys Ser Ser Lys Leu Thr Leu Val Val Glu Asp Asp Asp Gln Gly Arg			
85	90	95	
Glu Gln Glu His Thr Phe Val Phe Arg Leu Asp Ser Ala Arg Thr Cys			
100	105	110	
Lys His Leu Trp Lys Cys Ala Val Glu His His Ala Phe Phe Arg Leu			
115	120	125	
Arg Thr Pro Gly Asn Ser Lys Ser Asn Arg Ser Asp Phe Ile Arg Leu			
130	135	140	
Gly Ser Arg Phe Arg Phe Ser Gly Arg Thr Glu Tyr Gln Ala Thr His			

145	150	155	160
Gly Ser Arg Leu Arg Arg Thr Ser Thr Phe Glu Arg Lys Pro Ser Lys			
165	170	175	
Arg Tyr Pro Ser Arg Arg His Ser Thr Phe Lys Ala Ser Asn Pro Val			
180	185	190	
Ile Ala Ala Gln Leu Cys Ser Lys Thr Asn Pro Glu Val His Asn Tyr			
195	200	205	
Gln Pro Gln Tyr His Pro Asn Ile His Pro Ser Gln Pro Arg Trp His			
210	215	220	
Pro His Ser Pro Asn Val Arg Pro Ser Phe Gln Asp Asp Arg Ser His			
225	230	235	240
Trp Lys Ala Ser Ala Ser Gly Asp Asp Ser His Phe Asp Tyr Val His			
245	250	255	
Asp Gln Asn Gln Lys Asn Leu Gly Gly Met Gln Ser Met Met Tyr Arg			
260	265	270	
Asp Lys Leu Met Thr Ala Leu			
275	279		

&lt;210&gt; 1249

&lt;211&gt; 255

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(255)

&lt;223&gt; X = any amino acid or stop code

<400> 1249			
Gly Gly Ile Arg Leu Ile Gln Lys Leu Thr Trp Arg Ser Arg Gln Gln			
1	5	10	15
Asp Arg Glu Asn Cys Ala Met Lys Gly Lys His Lys Asp Glu Cys His			
20	25	30	
Asn Phe Ile Lys Val Phe Val Pro Arg Asn Asp Glu Met Val Phe Val			
35	40	45	
Cys Gly Thr Asn Ala Phe Asn Pro Met Cys Arg Tyr Tyr Arg Val Ser			
50	55	60	
Ile Phe Tyr Val Ile Cys Phe Phe Xaa Ser Thr Phe Leu Pro Ser Leu			
65	70	75	80
Ile Cys Cys Xaa Ser Xaa Asn Leu Ser Ala Phe Gln Xaa Phe Val Leu			
85	90	95	
Ser Leu Val Gln Xaa Lys Asn Lys Asp Arg Ile Leu Gln Met Glu Phe			
100	105	110	
Xaa Tyr Xaa Asn Ser Ile Ala Phe Lys Arg Ala Arg Xaa Ile Asp			
115	120	125	
Met Thr Leu Ala Ile Tyr Phe Ser Phe Val Leu Ser Thr Leu Xaa Tyr			
130	135	140	
Asp GLy Glu Glu Ile Ser Gly Leu Ala Arg Cys Pro Phe Asp Ala Arg			
145	150	155	160
Gln Thr Asn Gly Ala Leu Phe Ala Asp Gly Lys Leu Tyr Ser Ala Thr			
165	170	175	
Val Ala Asp Phe Leu Ala Ser Asp Ala Val Ile Tyr Arg Ser Met Gly			
180	185	190	
Asp Gly Ser Ala Leu Arg Thr Ile Lys Tyr Asp Ser Lys Trp Ile Lys			
195	200	205	
Glu Pro His Phe Leu Tyr Ala Ile Lys Tyr Gly Asn Tyr Val Phe			
210	215	220	
Ser Phe Arg Glu Ile Val Ala Thr Xaa Xaa Leu Gly Lys Ala Val Asp			
225	230	235	240

Ser	Arg	Val	Ala	Arg	Tyr	Glu	Lys	Gln	Leu	Val	Gly	Pro	Thr	Val
									245	250				255

<210> 1250  
<211> 307  
<212>Amino acid  
<213> Homo sapiens

<400> 1250														
Ala	Arg	Ala	Leu	Ala	Arg	Glu	Arg	Glu	Ser	Ala	Arg	Ala	Asp	
1					5			10			15			
Asp	Val	Thr	Leu	Gly	Val	Ser	Ala	Ile	Leu	Ala	Val	Asp	Arg	Gly
					20			25			30			
Asn	Leu	Gly	Ser	Ala	Asp	Gly	Trp	Ala	Tyr	Ile	Asp	Val	Glu	Val
					35			40			45			
Arg	Pro	Trp	Ala	Phe	Val	Gly	Pro	Gly	Cys	Ser	Arg	Ser	Ser	Gly
					50			55			60			
Gly	Ser	Thr	Ala	Tyr	Gly	Leu	Val	Gly	Ser	Pro	Arg	Trp	Leu	Ser
					65			70			75			80
Phe	His	Thr	Gly	Gly	Ala	Val	Ser	Leu	Pro	Arg	Arg	Pro	Arg	Gly
					85			90			95			
Gly	Pro	Val	Leu	Gly	Val	Ala	Arg	Pro	Cys	Leu	Arg	Cys	Val	Leu
					100			105			110			
Pro	Glu	His	Tyr	Glu	Pro	Gly	Ser	His	Tyr	Ser	Gly	Phe	Ala	Gly
					115			120			125			
Asp	Ala	Ser	Arg	Ala	Phe	Val	Thr	Gly	Asp	Cys	Ser	Glu	Ala	Gly
					130			135			140			
Val	Asp	Asp	Val	Ser	Asp	Leu	Ser	Ala	Ala	Glu	Met	Leu	Thr	Leu
					145			150			155			160
Asn	Trp	Leu	Ser	Phe	Tyr	Glu	Lys	Asn	Tyr	Val	Cys	Val	Gly	Arg
					165			170			175			
Thr	Gly	Arg	Phe	Tyr	Gly	Glu	Asp	Gly	Leu	Pro	Thr	Pro	Ala	Leu
					180			185			190			
Gln	Val	Glu	Ala	Ala	Ile	Thr	Arg	Gly	Leu	Glu	Ala	Asn	Lys	Leu
					195			200			205			
Leu	Gln	Glu	Lys	Gln	Thr	Phe	Pro	Pro	Cys	Asn	Ala	Glu	Trp	Ser
					210			215			220			
Ala	Arg	Gly	Ser	Arg	Leu	Trp	Cys	Ser	Gln	Lys	Ser	Gly	Gly	Val
					225			230			235			240
Arg	Asp	Trp	Ile	Gly	Val	Pro	Arg	Lys	Leu	Tyr	Lys	Pro	Gly	Ala
					245			250			255			
Glu	Pro	Arg	Cys	Val	Cys	Val	Arg	Thr	Gly	Pro	Pro	Ser	Gly	Gln
					260			265			270			
Met	Pro	Asp	Asn	Pro	Pro	His	Arg	Asn	Gly	Asp	Leu	Asp	His	Pro
					275			280			285			
Asn	Leu	Ala	Glu	Tyr	Thr	Gly	Cys	Pro	Pro	Leu	Ala	Ile	Thr	Cys
					290			295			300			
Phe	Pro	Leu			305			307						

<210> 1251  
<211> 100  
<212>Amino acid  
<213> Homo sapiens

<400> 1251  
 Tyr Phe Ile Ile Cys Arg Asp Gly Val Leu Leu Phe Cys Pro Gly Trp  
   1                 5                 10                 15  
 Ser Gln Thr Pro Gly Ala Gln Ala Ile Leu Leu His Trp Ala Thr Gln  
   20                 25                 30  
 Asn Ala Gly Met Thr Asp Met Ser His Ser Ala Gln Pro Ile Tyr Leu  
   35                 40                 45  
 Phe Ile Tyr Leu Ile Arg Thr Arg Ser His Tyr Val Ala Gln Ala Gly  
   50                 55                 60  
 Gln Leu Leu Asp Ser Asn Asp Ser Pro Asn Val Ala Ser Gln Asn Val  
   65                 70                 75                 80  
 Gly Ile Thr Gly Met Ser His His Ala Trp Leu Lys Ile Val Leu Tyr  
   85                 90                 95  
 Phe Cys Ile Ile  
   100

<210> 1252  
<211> 464  
<212>Amino acid  
<213> Homo sapiens

<400> 1252  
 Pro Ala Ala Arg Pro Pro Ser Leu Val Arg Leu Ser Pro Ser Pro Pro  
   1                 5                 10                 15  
 Lys Pro Arg Ala Arg Ala Arg Ala Pro Gln Ser Val Glu Pro Ala Ala  
   20                 25                 30  
 Pro Leu Val Ala Arg Gly Ser Ser Pro Pro Ala Arg Pro Ala Pro Ala  
   35                 40                 45  
 Met Val Arg Pro Arg Arg Ala Pro Tyr Arg Ser Gly Ala Gly Gly Pro  
   50                 55                 60  
 Leu Gly Gly Arg Gly Arg Pro Pro Arg Pro Leu Val Val Arg Ala Val  
   65                 70                 75                 80  
 Arg Ser Arg Ser Trp Pro Ala Ser Pro Arg Gly Pro Gln Pro Pro Arg  
   85                 90                 95  
 Ile Arg Ala Arg Ser Ala Pro Pro Met Glu Gly Ala Arg Val Phe Gly  
   100                 105                 110  
 Ala Leu Gly Pro Ile Gly Pro Ser Ser Pro Gly Leu Thr Leu Gly Gly  
   115                 120                 125  
 Leu Ala Val Ser Glu His Arg Leu Ser Asn Lys Leu Leu Ala Trp Ser  
   130                 135                 140  
 Gly Val Leu Glu Trp Gln-Glu Lys Arg Arg Pro Tyr Ser Asp Ser Thr  
   145                 150                 155                 160  
 Ala Lys Leu Lys Arg Thr Leu Pro Cys Gln Ala Tyr Val Asn Gln Gly  
   165                 170                 175  
 Glu Asn Leu Glu Thr Asp Gln Trp Pro Gln Lys Leu Ile Met Gln Leu  
   180                 185                 190  
 Ile Pro Gln Gln Leu Leu Thr Thr Leu Gly Pro Leu Phe Arg Asn Ser  
   195                 200                 205  
 Gln Leu Ala Gln Phe His Phe Thr Asn Arg Asp Cys Asp Ser Leu Lys  
   210                 215                 220  
 Gly Leu Cys Arg Ile Met Gly Asn Gly Phe Ala Gly Cys Met Leu Phe  
   225                 230                 235                 240  
 Pro His Ile Ser Pro Cys Glu Val Arg Val Leu Met Leu Leu Tyr Ser  
   245                 250                 255  
 Ser Lys Lys Ile Phe Met Gly Leu Ile Pro Tyr Asp Gln Ser Gly  
   260                 265                 270  
 Phe Val Ser Ala Ile Arg Gln Val Ile Thr Thr Arg Lys Gln Ala Val  
   275                 280                 285

Gly Pro Gly Val Asn Ser Gly Pro Val Gln Ile Val Asn Asn Lys  
 290 295 300  
 Phe Leu Ala Trp Ser Gly Val Met Glu Trp Gln Glu Pro Arg Pro Glu  
 305 310 315 320  
 Pro Asn Ser Arg Ser Lys Arg Trp Leu Pro Ser His Val Tyr Val Asn  
 325 330 335  
 Gln Gly Glu Ile Leu Arg Thr Glu Gln Trp Pro Arg Lys Leu Tyr Met  
 340 345 350  
 Gln Leu Ile Pro Gln Gln Leu Leu Thr Thr Leu Val Pro Leu Phe Arg  
 355 360 365  
 Asn Ser Arg Leu Val Gln Phe His Phe Thr Lys Asp Leu Glu Thr Leu  
 370 375 380  
 Lys Ser Leu Cys Arg Ile Met Asp Asn Gly Phe Ala Gly Cys Val His  
 385 390 395 400  
 Phe Ser Tyr Lys Ala Ser Cys Glu Ile Arg Val Leu Met Leu Leu Tyr  
 405 410 415  
 Ser Ser Glu Lys Ile Phe Ile Gly Leu Ile Pro His Asp Gln Gly  
 420 425 430  
 Asn Phe Val Asn Gly Ile Arg Arg Val Ile Ala Asn Gln Gln Gln Val  
 435 440 445  
 Leu Gln Arg Asn Leu Glu Gln Glu Gln Gln Arg Gly Met Gly Gly  
 450 455 460 464

<210> 1253  
<211> 214  
<212>Amino acid  
<213> Homo sapiens

<400> 1253  
 Gly Arg Pro Ala Leu Gly Arg Glu Ala Pro Pro Gln Ala Gly Leu Ser  
 1 5 10 15  
 Ser Thr Pro Pro Pro Cys Ser Glu Thr Cys Thr Met Gly Pro His Ser  
 20 25 30  
 Ile Leu Arg Thr Val His Cys Arg Pro Thr Lys Thr Pro Pro Glu Pro  
 35 40 45  
 Ser Ala Glu Pro His Pro Leu Ser Leu Leu Thr Ser Ser Asn Thr Ser  
 50 55 60  
 Leu Ala Gly Thr Ser Leu Gly Arg Asp Leu Thr Pro Gly Gly Lys  
 65 70 75 80  
 Pro Pro Ser Gly Gln Thr Pro Arg Asn Pro Glu Ser Pro Arg His Arg  
 85 90 95  
 Leu Gly Ser Pro Arg Gly Arg Arg Trp Leu Ala Ser Pro Thr Pro Thr  
 100 105 110  
 Gly Ser Gly Arg Ser Gly Pro Ala Ser Arg Gly Gln Arg Arg Leu Ser  
 115 120 125  
 Cys Ala Ala Gln Asp Pro Thr Ser Glu Gly Ala Ser Val Gly Ala Met  
 130 135 140  
 Glu Ala Gly Leu Gly Pro Pro Thr Ala Ala Pro Arg Gly Val Val Ser  
 145 150 155 160  
 Glu Ala Ala Glu Ser Leu Gly Gly Thr Leu Ser Trp Gly Ala Trp Gly  
 165 170 175  
 Arg Pro Pro Ala Gly Pro Ser Gly Leu Ala Gly Arg Arg Ser Arg Arg  
 180 185 190  
 Glu Ala Leu Arg Pro Asp Arg Lys Glu Ala Ser Val Met Met Ala Ala  
 195 200 205  
 Val Ser Ala Ile Gln Pro  
 210 214

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<210> 1254
<211> 198
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(198)
<223> X = any amino acid or stop code

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<400> 1254
Pro Gly Val Pro Thr His Gly Trp Pro Arg Ser Arg Val Leu Thr Arg
 1           5          10          15
Val Arg Gly Ser Arg Gly Ser Gly Lys Met Ala Ala Ala Val Val Leu
 20          25          30
Ala Ala Gly Leu Arg Ala Ala Arg Arg Ala Val Ala Ala Thr Gly Val
 35          40          45
Arg Gly Gly Gln Val Arg Gly Ala Ala Gly Val Thr Asp Gly Asn Glu
 50          55          60
Val Ala Lys Ala Gln Ala Thr Pro Gly Gly Ala Ala Pro Thr Ile
 65          70          75          80
Phe Ser Arg Ile Leu Asp Lys Ser Leu Pro Ala Asp Ile Leu Tyr Glu
 85          90          95
Asp Gln Gln Cys Leu Val Phe Arg Asp Val Ala Pro Gln Ala Pro Val
100          105         110
His Phe Leu Val Ile Pro Lys Lys Pro Ile Pro Arg Ile Ser Gln Ala
115          120         125
Glu Glu Glu Asp Gln Gln Leu Thr Tyr Val Pro Pro Leu Ser Leu Xaa
130          135         140
Leu Leu Gly His Leu Leu Val Ala Lys Gln Thr Ala Lys Ala Glu
145          150         155         160
Gly Leu Gly Asp Gly Tyr Arg Leu Val Ile Asn Asp Gly Lys Leu Gly
165          170         175
Ala Gln Ser Val Tyr His Leu His Ile His Val Leu Gly Gly Arg Gln
180          185         190
Leu Gln Trp Pro Pro Gly
195          198

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<210> 1255
<211> 458
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(458)
<223> X = any amino acid or stop code

```

```

<400> 1255
Val Pro Asn Tyr Leu Pro Ser Val Ser Ser Ala Ile Gly Gly Glu Val
 1           5          10          15
Pro Gln Arg Tyr Val Trp Arg Phe Cys Ile Gly Leu His Ser Ala Pro
 20          25          30

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Arg Phe Leu Val Ala Phe Ala Tyr Trp Asn His Tyr Leu Ser Cys Thr  
     35                  40                  45  
 Ser Pro Cys Ser Cys Tyr Arg Pro Leu Cys Arg Leu Asn Phe Gly Leu  
     50                  55                  60  
 Asn Val Val Glu Asn Leu Ala Leu Leu Val Leu Thr Tyr Val Ser Ser  
     65                  70                  75                  80  
 Ser Glu Asp Phe Thr Trp Val Pro Gly Xaa Gly Arg Ser Gly Glu Val  
     85                  90                  95  
 Phe Pro Glu Gly Thr Gly Leu Pro Leu Pro His Ser Asp Leu Pro Thr  
     100                 105                 110  
 Ser Trp Cys Gly His Ser Leu Gln Cys Gly Ser Gln Ser Ser Phe Pro  
     115                 120                 125  
 Pro Ala Ile His Glu Asn Ala Phe Ile Val Phe Ile Ala Ser Ser Leu  
     130                 135                 140  
 Gly His Met Leu Leu Thr Cys Ile Leu Trp Arg Leu Thr Lys Lys His  
     145                 150                 155                 160  
 Thr Val Ser Gln Glu Asp Gly Leu Ser Leu Ala Gly Ala Pro Arg Gln  
     165                 170                 175  
 Pro Arg Arg Lys Ser Arg Thr Ser Val Leu Arg Ile Arg Val Met Val  
     180                 185                 190  
 Arg Trp Glu Leu Ser Ser Asn Gly Asn Pro Gly Arg Gly Val Leu Gly  
     195                 200                 205  
 Leu Gly Leu Gly Leu Gly Asn Lys Leu Arg Val Val Gly Gln Asn Leu  
     210                 215                 220  
 Gly Leu Xaa His Cys Val Trp Val Val Trp Glu Thr Gly Glu Xaa Lys  
     225                 230                 235                 240  
 Arg Trp Arg Leu Gln Met Gly Ile Glu Xaa Gly Val Ala Ser Arg Arg  
     245                 250                 255  
 Gln Xaa Val Arg Asn Ser Val Arg Gly Leu Val Cys His Asn Ser Ser  
     260                 265                 270  
 Ala Pro Pro Met Tyr Met Gly Phe Phe Ser Pro Thr Val Phe Gly Gly  
     275                 280                 285  
 Gly Val Gly Gly Xaa Leu His Val Thr Phe Ile Leu His Pro Pro Glu  
     290                 295                 300  
 Val Glu Ala Ala Gly Ile Pro Leu Leu Leu Gly Pro Ser Leu Pro Gln  
     305                 310                 315                 320  
 Arg Gln Gly Arg Glu His Ile Val Val Ile Leu Ala Ala Pro Ala Cys  
     325                 330                 335  
 Ala Pro Phe His Asp Arg Xaa Trp Glu Pro Arg Glu Ile Arg Pro Ser  
     340                 345                 350  
 Pro Xaa Glu Leu Gly Leu Arg Gly Glu Pro Thr Leu Ser Tyr Pro Ala  
     355                 360                 365  
 Ser Cys Arg Val Ile Arg Gln Pro Ile Pro Xaa Asp Arg Lys Ser Tyr  
     370                 375                 380  
 Ser Trp Lys Gln Arg Leu Phe Ile Ile Asn Phe Ile Ser Phe Ser  
     385                 390                 395                 400  
 Ala Leu Ala Val Tyr Phe Arg His Asn Met Tyr Cys Glu Ala Gly Val  
     405                 410                 415  
 Tyr Thr Ile Phe Ala Ile Leu Glu Tyr Thr Val Val Leu Thr Asn Met  
     420                 425                 430  
 Ala Phe His Met Thr Ala Trp Trp Asp Phe Gly Asn Lys Glu Leu Leu  
     435                 440                 445  
 Ile Thr Ser Gln Pro Glu Glu Lys Arg Phe  
     450                 455                 458

&lt;210&gt; 1256

&lt;211&gt; 83

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

<400> 1256  
 Ile Asp Leu Leu Glu Ile Arg Asn Gly Pro Arg Ser His Glu Ser Phe  
 1 5 10 15  
 Gln Glu Met Asp Leu Asn Asp Asp Trp Lys Leu Ser Lys Asp Glu Val  
 20 25 30  
 Lys Ala Tyr Leu Lys Lys Glu Phe Glu Lys His Gly Ala Val Val Asn  
 35 40 45  
 Glu Ser His His Asp Ala Leu Val Glu Asp Ile Phe Asp Lys Glu Asp  
 50 55 60  
 Glu Asp Lys Asp Gly Phe Ile Ser Ala Arg Glu Phe Thr Tyr Lys His  
 65 70 75 80  
 Asp Glu Leu  
 83

<210> 1257  
<211> 203  
<212>Amino acid  
<213> Homo sapiens

<400> 1257  
 Pro Arg Val Arg Gly Arg Val Gly Lys Glu Gly Ala Ala Ala Lys Pro  
 1 5 10 15  
 Arg Ser Leu Leu Arg Arg Phe Gln Leu Leu Ser Trp Ser Val Cys Gly  
 20 25 30  
 Gly Asn Lys Asp Pro Trp Val Gln Glu Leu Met Ser Cys Leu Asp Leu  
 35 40 45  
 Lys Glu Cys Gly His Ala Tyr Ser Gly Ile Val Ala His Gln Lys His  
 50 55 60  
 Leu Leu Pro Thr Ser Pro Pro Ile Ser Gln Ala Ser Glu Gly Ala Ser  
 65 70 75 80  
 Ser Asp Ile His Thr Pro Ala Gln Met Leu Leu Ser Thr Leu Gln Ser  
 85 90 95  
 Thr Gln Arg Pro Thr Leu Pro Val Gly Ser Leu Ser Ser Asp Lys Glu  
 100 105 110  
 Leu Thr Arg Pro Asn Glu Thr Ile His Thr Ala Gly His Ser Leu  
 115 120 125  
 Ala Ala Gly Pro Glu Ala Gly Glu Asn Gln Lys Gln Pro Glu Lys Asn  
 130 135 140  
 Ala Gly Pro Thr Ala Arg Thr Ser Ala Thr Val Pro Val Leu Cys Leu  
 145 150 155 160  
 Leu Ala Ile Ile Phe Ile Leu Thr Ala Ala Leu Ser Tyr Val Leu Cys  
 165 170 175  
 Lys Arg Arg Gly Gln Ser Pro Gln Ser Ser Pro Asp Leu Pro Val  
 180 185 190  
 His Tyr Ile Pro Val Ala Pro Asp Ser Asn Thr  
 195 200 203

<210> 1258  
<211> 195  
<212>Amino acid  
<213> Homo sapiens

<400> 1258

Leu Ile Ile Ser Asn Phe Leu Lys Ala Lys Gln Lys Pro Gly Ser Thr  
 1 5 10 15  
 Pro Asn Leu Gln Gln Lys Lys Ser Gln Ala Arg Leu Ala Pro Asp Ile  
 20 25 30  
 Val Ser Ala Ser Gln Tyr Arg Lys Phe Asp Glu Phe Gln Thr Gly Ile  
 35 40 45  
 Leu Ile Tyr Glu Leu Leu His Gln Pro Asn Pro Phe Glu Val Arg Ala  
 50 55 60  
 Gln Leu Arg Glu Arg Asp Tyr Arg Gln Glu Asp Leu Pro Pro Leu Pro  
 65 70 75 80  
 Ala Leu Ser Leu Tyr Ser Pro Gly Leu Gln Gln Leu Ala His Leu Leu  
 85 90 95  
 Leu Glu Ala Asp Pro Ile Lys Arg Ile Arg Ile Gly Glu Ala Lys Arg  
 100 105 110  
 Val Leu Gln Cys Leu Leu Trp Gly Pro Arg Arg Glu Leu Val Gln Gln  
 115 120 125  
 Pro Gly Thr Ser Glu Glu Ala Leu Cys Gly Thr Leu His Asn Trp Ile  
 130 135 140  
 Asp Met Lys Arg Ala Leu Met Met Met Lys Phe Ala Glu Lys Ala Val  
 145 150 155 160  
 Asp Arg Arg Arg Gly Val Glu Leu Glu Asp Trp Leu Cys Cys Gln Tyr  
 165 170 175  
 Leu Ala Ser Ala Glu Pro Gly Ala Leu Leu Gln Ser Leu Lys Leu Leu  
 180 185 190  
 Gln Leu Leu  
 195

<210> 1259  
 <211> 672  
 <212> Amino acid  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (1)...(672)  
 <223> X = any amino acid or stop code

<400> 1259  
 Lys Arg Gly Leu Ile Val Val Met Ala His Glu Met Ile Gly Thr Gln  
 1 5 10 15  
 Ile Val Thr Glu Arg Gly Val Ala Leu Leu Glu Ser Gly Thr Glu Lys  
 20 25 30  
 Val Leu Leu Ile Asp Ser Arg Pro Phe Val Glu Tyr Asn Thr Ser His  
 35 40 45  
 Ile Leu Glu Ala Ile Asn Ile Asn Cys Ser Lys Leu Met Lys Arg Arg  
 50 55 60  
 Leu Gln Gln Asp Lys Val Leu Ile Thr Glu Leu Ile Gln His Ser Ala  
 65 70 75 80  
 Lys His Lys Val Asp Ile Asp Cys Ser Gln Lys Val Val Val Tyr Asp  
 85 90 95  
 Gln Ser Ser Gln Asp Val Ala Ser Leu Ser Asp Cys Phe Leu Thr  
 100 105 110  
 Val Leu Leu Gly Lys Leu Glu Lys Ser Phe Asn Ser Val His Leu Leu  
 115 120 125  
 Ala Gly Gly Phe Ala Glu Phe Ser Arg Cys Phe Pro Gly Leu Cys Glu  
 130 135 140  
 Gly Lys Ser Thr Leu Val Pro Thr Cys Ile Ser Gln Pro Cys Leu Pro  
 145 150 155 160  
 Val Ala Asn Ile Gly Pro Thr Arg Ile Leu Pro Asn Leu Tyr Leu Gly

165	170	175
Cys Gln Arg Asp Val Leu Asn Lys Glu Leu Met Gln Gln Asn Gly Ile		
180	185	190
Gly Tyr Val Leu Asn Ala Ser Asn Thr Cys Pro Lys Pro Asp Phe Ile		
195	200	205
Pro Glu Ser His Phe Leu Arg Val Pro Val Asn Asp Ser Phe Cys Glu		
210	215	220
Lys Ile Leu Pro Trp Leu Asp Lys Ser Val Asp Phe Ile Glu Lys Ala		
225	230	235
Lys Ala Ser Asn Gly Cys Val Leu Val His Cys Leu Ala Gly Ile Ser		
245	250	255
Arg Ser Ala Thr Ile Ala Ile Ala Tyr Ile Met Lys Arg Met Asp Met		
260	265	270
Ser Leu Asp Glu Ala Tyr Arg Phe Val Lys Glu Lys Arg Pro Thr Ile		
275	280	285
Ser Pro Asn Phe Asn Phe Leu Gly Gln Leu Leu Asp Tyr Glu Lys Lys		
290	295	300
Ile Iys Asn Gln Thr Gly Ala Ser Gly Pro Lys Ser Lys Leu Lys Leu		
305	310	315
Leu His Leu Glu Lys Pro Asn Glu Pro Val Pro Ala Val Ser Glu Gly		
325	330	335
Gly Gln Lys Ser Glu Thr Pro Leu Ser Pro Pro Cys Ala Asp Ser Ala		
340	345	350
Thr Ser Glu Ala Ala Gly Gln Arg Pro Val His Pro Ala Ser Val Pro		
355	360	365
Ser Val Pro Ser Val Gln Pro Ser Leu Leu Glu Asp Ser Pro Leu Val		
370	375	380
Gln Ala Leu Ser Gly Leu His Leu Ser Ala Asp Arg Leu Glu Asp Ser		
385	390	395
Asn Lys Leu Lys Arg Ser Phe Ser Leu Asp Ile Lys Ser Val Ser Tyr		
405	410	415
Ser Ala Ser Met Ala Ala Ser Leu His Gly Phe Ser Ser Ser Glu Asp		
420	425	430
Ala Leu Glu Tyr Tyr Lys Pro Ser Thr Thr Leu Asp Gly Thr Asn Lys		
435	440	445
Leu Cys Gln Phe Ser Pro Val Gln Glu Leu Cys Gly Ala Asp Ser Arg		
450	455	460
Asn Gln Ser Xaa Xaa Gly Gly Ser Gln Pro Ser Pro Arg Ser Cys Arg		
465	470	475
Pro Pro Gly Leu Gln Thr Ala Arg Ala Ser Asp Cys Ile Arg Ser Glu		
485	490	495
Pro Ala Ala Val Ala Pro Pro Arg Gly Pro Phe Tyr Leu His Cys Ile		
500	505	510
Glu Val Gly Ala Trp Arg Thr Ile Thr Thr Pro Ala Ser Phe Ser Ala		
515	520	525
Phe Pro Pro Pro Ala Ala Pro His Glu Val Cys Trp Pro Gly Pro Xaa		
530	535	540
Gly Leu Ala Pro Asp Ile Leu Ala Pro Gln Thr Ser Thr Pro Ser Leu		
545	550	555
Thr Ser Ser Trp Tyr Phe Ala Thr Glu Ser Ser His Phe Tyr Ser Ala		
565	570	575
Ser Ala Ile Tyr Gly Gly Ser Ala Ser Tyr Ser Ala Tyr Ser Cys Ser		
580	585	590
Gln Leu Pro Thr Cys Gly Asp Gln Val Tyr Ser Val Arg Arg Gln		
595	600	605
Lys Pro Ser Asp Arg Ala Asp Ser Arg Arg Ser Trp His Glu Glu Ser		
610	615	620
Pro Phe Glu Lys Gln Phe Lys Arg Arg Ser Cys Gln Met Glu Phe Gly		
625	630	635
Glu Ser Ile Met Ser Glu Asn Arg Ser Arg Glu Glu Leu Gly Lys Val		
645	650	655
Gly Ser Gln Ser Ser Phe Ser Gly Ser Met Glu Ile Ile Glu Val Ser		
660	665	670
		672

<210> 1260  
<211> 260  
<212>Amino acid  
<213> Homo sapiens

<400> 1260  
Ala Ser Ser Ser Lys Arg Val Ser Arg Gln Lys Met Leu Gln Leu Trp  
1 5 10 15  
Lys Leu Val Leu Leu Cys Gly Val Leu Thr Gly Thr Ser Glu Ser Leu  
20 25 30  
Leu Asp Asn Leu Gly Asn Asp Leu Ser Asn Val Val Asp Lys Leu Glu  
35 40 45  
Pro Val Leu His Glu Gly Leu Glu Thr Val Asp Asn Thr Leu Lys Gly  
50 55 60  
Ile Leu Glu Lys Leu Lys Val Asp Leu Gly Val Leu Gln Lys Ser Ser  
65 70 75 80  
Ala Trp Gln Leu Ala Lys Gln Lys Ala Gln Glu Ala Glu Lys Leu Leu  
85 90 95  
Asn Asn Val Ile Ser Lys Leu Leu Pro Thr Asn Thr Asp Ile Phe Gly  
100 105 110  
Leu Lys Ile Ser Asn Ser Leu Ile Leu Asp Val Lys Ala Glu Pro Ile  
115 120 125  
Asp Asp Gly Lys Gly Leu Asn Leu Ser Phe Pro Val Thr Ala Asn Val  
130 135 140  
Thr Glu Ala Gly Pro Ile Ile Asp Gln Ile Ile Asn Leu Arg Ala Ser  
145 150 155 160  
Leu Asp Leu Leu Thr Ala Val Thr Ile Glu Thr Asp Pro Gln Thr His  
165 170 175  
His Pro Val Ala Gly Leu Gly Glu Cys Ala Arg Asp Pro Thr Ser Ile  
180 185 190  
Ser Leu Cys Leu Leu Asp Lys His Ser Gln Ile Ile Asn Lys Phe Val  
195 200 205  
Asn Ser Val Ile Asn Thr Leu Lys Ser Thr Val Ser Ser Leu Leu Gln  
210 215 220  
Lys Glu Ile Cys Pro Leu Ile Arg Ile Phe Ile His Ser Leu Asp Val  
225 230 235 240  
Asn Val Ile Gln Gln Val Val Asp Asn Pro Gln His Lys Thr Gln Leu  
245 250 255  
Gln Thr Leu Ile  
260

<210> 1261  
<211> 278  
<212>Amino acid  
<213> Homo sapiens

<400> 1261  
Cys Ser Leu Arg Arg Pro Arg Ser Ala Ala Glu Pro Asp Ala Asp His  
1 5 10 15  
Val Pro Leu Leu Gly Leu Leu Arg Leu Gln Leu Arg Ala Ala Arg Gln  
20 25 30  
Pro Gly Ala Met Arg Pro Gln Gly Pro Ala Ala Ser Pro Gln Arg Leu

35	40	45	
Arg Gly Leu Leu Leu Leu Leu Leu Gln Leu Pro Ala Pro Ser Ser			
50	55	60	
Ala Ser Glu Ile Pro Lys Gly Lys Gln Lys Ala Gln Leu Arg Gln Arg			
65	70	75	80
Glu Val Val Asp Leu Tyr Asn Gly Met Cys Leu Gln Gly Pro Ala Gly			
85	90	95	
Val Pro Gly Arg Asp Gly Ser Pro Gly Ala Asn Gly Ile Pro Gly Thr			
100	105	110	
Pro Gly Ile Pro Gly Arg Asp Gly Phe Lys Gly Glu Lys Gly Glu Cys			
115	120	125	
Leu Arg Glu Ser Phe Glu Glu Ser Trp Thr Pro Asn Tyr Lys Gln Cys			
130	135	140	
Ser Trp Ser Ser Leu Asn Tyr Gly Ile Asp Leu Gly Lys Ile Ala Glu			
145	150	155	160
Cys Thr Phe Thr Lys Met Arg Ser Asn Ser Ala Leu Arg Val Leu Phe			
165	170	175	
Ser Gly Ser Leu Arg Leu Lys Cys Arg Asn Ala Cys Cys Gln Arg Trp			
180	185	190	
Tyr Phe Thr Phe Asn Gly Ala Glu Cys Ser Gly Pro Leu Pro Ile Glu			
195	200	205	
Ala Ile Ile Tyr Leu Asp Gln Gly Ser Pro Glu Met Asn Ser Thr Ile			
210	215	220	
Asn Ile His Arg Thr Ser Ser Val Glu Gly Leu Cys Glu Gly Ile Gly			
225	230	235	240
Ala Gly Leu Val Asp Val Ala Ile Trp Val Gly Thr Cys Ser Asp Tyr			
245	250	255	
Pro Lys Gly Asp Ala Ser Thr Gly Trp Asn Ser Val Ser Arg Ile Ile			
260	265	270	
Ile Glu Glu Leu Pro Lys			
275	278		

<210> 1262  
 <211> 362  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1262
Met His Ser Ala Met Leu Gly Thr Arg Val Asn Leu Ser Val Ser Asp
1 5 10 15
Phe Trp Arg Val Met Met Arg Val Cys Trp Leu Val Arg Gln Asp Ser
20 25 30
Arg His Gln Arg Ile Arg Leu Pro His Leu Glu Ala Val Val Ile Gly
35 40 45
Arg Gly Pro Glu Thr Lys Ile Thr Asp Lys Lys Cys Ser Arg Gln Gln
50 55 60
Val Gln Leu Lys Ala Glu Cys Asn Lys Gly Tyr Val Lys Val Lys Gln
65 70 75 80
Val Gly Val Asn Pro Thr Ser Ile Asp Ser Val Val Ile Gly Lys Asp
85 90 95
Gln Glu Val Lys Leu Gln Pro Gly Gln Val Leu His Met Val Asn Glu
100 105 110
Leu Tyr Pro Tyr Ile Val Glu Phe Glu Glu Ala Lys Asn Pro Gly
115 120 125
Leu Glu Thr His Arg Lys Arg Lys Arg Ser Gly Asn Ser Asp Ser Ile
130 135 140
Glu Arg Asp Ala Ala Gln Glu Ala Glu Ala Gly Thr Gly Leu Glu Pro
145 150 155 160
Gly Ser Asn Ser Gly Gln Cys Ser Val Pro Leu Lys Lys Gly Lys Asp

	165	170	
Ala Pro Ile Lys Lys Glu Ser Leu Gly His Trp Ser Gln Gly Leu Lys	180	185	175
			190
Ile Ser Met Gln Asp Pro Lys Met Gln Val Tyr Lys Asp Glu Gln Val	195	200	205
			205
Val Val Ile Lys Asp Lys Tyr Pro Lys Ala Arg Tyr His Trp Leu Val	210	215	220
			220
Leu Pro Trp Thr Ser Ile Ser Ser Leu Lys Ala Val Ala Arg Glu His	225	230	235
			240
Leu Glu Leu Leu Lys His Met His Thr Val Gly Glu Lys Val Ile Val	245	250	255
			255
Asp Phe Ala Gly Ser Ser Lys Leu Arg Phe Arg Leu Gly Tyr His Ala	260	265	270
			270
Ile Pro Ser Met Ser His Val His Leu His Val Ile Ser Gln Asp Phe	275	280	285
			285
Asp Ser Pro Cys Leu Lys Asn Lys Lys His Trp Asn Ser Phe Asn Thr	290	295	300
			300
Glu Tyr Phe Leu Glu Ser Gln Ala Val Ile Glu Met Val Gln Glu Ala	305	310	315
			320
Gly Arg Val Thr Val Arg Asp Gly Met Pro Glu Leu Leu Lys Leu Pro	325	330	335
			335
Leu Arg Cys His Glu Cys Gln Gln Leu Leu Pro Ser Ile Pro Gln Leu	340	345	350
			350
Lys Glu His Leu Arg Lys His Trp Thr Gln	355	360	362

<210> 1263  
 <211> 618  
 <212>Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(618)  
 <223> X = any amino acid or stop code

	<400> 1263			
Asp Met Ser Asp Thr Ser Glu Ser Gly Ala Gly Leu Thr Arg Phe Gln	1	5	10	15
Ala Glu Ala Ser Glu Lys Asp Ser Ser Ser Met Met Gln Thr Leu Leu	20	25	30	
Thr Val Thr Gln Asn Val Glu Val Pro Glu Thr Pro Lys Ala Ser Lys	35	40	45	
Ala Leu Glu Val Ser Glu Asp Val Lys Val Ser Lys Ala Ser Gly Val	50	55	60	
Ser Lys Ala Thr Glu Val Ser Lys Thr Pro Glu Ala Arg Glu Ala Pro	65	70	75	80
Ala Thr Gln Ala Ser Ser Thr Thr Gln Leu Thr Asp Thr Gln Val Leu	85	90	95	
Ala Ala Glu Asn Lys Ser Leu Ala Ala Asp Thr Lys Lys Gln Asn Ala	100	105	110	
Asp Pro Gln Ala Val Thr Met Pro Ala Thr Glu Thr Lys Lys Val Ser	115	120	125	
His Val Ala Asp Thr Lys Val Asn Thr Lys Ala Gln Glu Thr Glu Ala	130	135	140	
Ala Pro Ser Gln Ala Pro Ala Asp Glu Pro Glu Pro Glu Ser Ala Ala	145	150	155	160
Ala Gln Ser Gln Glu Asn Gln Asp Thr Arg Pro Lys Val Lys Ala Lys	165	170	175	

Lys Ala Arg Lys Val Lys His Leu Asp Gly Glu Glu Asp Gly Ser Ser  
           180                     185                     190  
 Asp Gln Ser'Gln Ala Ser Gly Thr Thr Gly Gly Arg Arg Val Ser Lys  
           195                     200                     205  
 Ala Leu Met Ala Ser Met Ala Arg Arg Ala Ser Arg Gly Pro Ile Ala  
           210                     215                     220  
 Phe Trp Ala Arg Arg Ala Ser Arg Thr Arg Leu Ala Cys Phe Gly Pro  
           225                     230                     235                     240  
 Gly Glu Pro Leu Leu Ser Pro Trp Arg Ser Pro Lys Ala Arg Arg Gln  
           245                     250                     255  
 Arg Gly Phe Ala Val Arg Val Ala Lys Phe Gln Ser Ser Gln Glu Pro  
           260                     265                     270  
 Glu Ala Pro Pro Pro Trp Asp Val Ala Leu Leu Gln' Gly Arg Ala Asn  
           275                     280                     285  
 Asp Leu Val Lys Tyr Leu Leu Ala Lys Asp Gln Thr Lys Ile Pro Ile  
           290                     295                     300  
 Lys Arg Ser Asp Met Leu Lys Asp Ile Ile Lys Glu Tyr Thr Asp Val  
           305                     310                     315                     320  
 Tyr Pro Glu Ile Ile Glu Arg Ala Gly Tyr Ser Leu Glu Lys Val Phe  
           325                     330                     335  
 Gly Ile Gln Leu Lys Glu Ile Asp Lys Asn Asp His Leu Tyr Ile Leu  
           340                     345                     350  
 Leu Ser Thr Leu Glu Pro Thr Asp Ala Gly Ile Leu Gly Thr Thr Lys  
           355                     360                     365  
 Asp Ser Pro Lys Leu Gly Leu Leu Met Val Leu Leu Ser Ile Ile Phe  
           370                     375                     380  
 Met Asn Gly Asn Arg Ser Ser Glu Ala Val Ile Trp Glu Val Leu Arg  
           385                     390                     395                     400  
 Arg Ser Leu Gly Leu Arg Leu Gly Ile His His Ser Leu Leu Gly Asp  
           405                     410                     415  
 Val Lys Lys Leu Ile Thr Asp Glu Val Val Lys Gln Lys Tyr Leu Asp  
           420                     425                     430  
 Tyr Ala Arg Val Pro His Ser Asn Ser Pro Glu Tyr Glu Phe Phe Trp  
           435                     440                     445  
 Gly Leu Arg Ser Tyr Tyr Glu Asp Gln Gln Arg Xaa Lys Ser Phe Lys  
           450                     455                     460  
 Phe Ala Cys Lys Val Gln Lys Lys Asp Pro Lys Glu Trp Ala Ala Gln  
           465                     470                     475                     480  
 Ser Pro Pro Gly Lys Ala Arg Glu Arg Met Glu Ala Asp Leu Lys Ala  
           485                     490                     495  
 Ala Ser Xaa Gly Ser Pro Trp Lys Pro Arg Leu Arg Ala Glu Ile Lys  
           500                     505                     510  
 Ala Arg Met Gly Ile Gly Leu Gly Ser Glu Asn Ala Ala Gly Pro Cys  
           515                     520                     525  
 Asn Trp Asp Glu Ala Asp Ile Gly Pro Trp Ala Lys Ala Arg Ile Gln  
           530                     535                     540  
 Ala Gly Ala Glu Ala Lys Ala Lys Ala Gln Glu Ser Gly Ser Ala Ser  
           545                     550                     555                     560  
 Thr Gly Ala Ser Thr Ser Thr Asn Asn Ser Ala Ser Ala Ser Ala Ser  
           565                     570                     575  
 Thr Ser Gly Gly Phe Ser Ala Gly Ala Ser Leu Thr Ala Thr Leu Thr  
           580                     585                     590  
 Phe Gly Leu Phe Ala Gly Leu Gly Gly Ala Gly Ala Ser Thr Ser Gly  
           595                     600                     605  
 Ser Ser Gly Ala Cys Gly Phe Ser Tyr Lys  
           610                     615                     618

<210> 1264  
 <211> 464  
 <212>Amino acid  
 <213> Homo sapiens

<220>

<221> misc\_feature  
<222> (1)...(464)  
<223> X = any amino acid or stop code

<400> 1264  
Ala Arg Pro Pro Val Cys Thr Gly Ser Thr Met Ser Leu Thr Val Val  
1 5 10 15  
Ser Met Ala Cys Val Gly Phe Phe Leu Leu Gln Gly Ala Trp Pro Leu  
20 25 30  
Met Gly Gly Gln Asp Lys Pro Phe Leu Ser Ala Arg Pro Ser Thr Val  
35 40 45  
Val Pro Arg Gly Gly His Val Ala Leu Gln Cys His Tyr Arg Arg Gly  
50 55 60  
Phe Asn Asn Phe Met Leu Tyr Lys Glu Asp Arg Ser His Val Pro Ile  
65 70 75 80  
Phe His Gly Arg Ile Phe Gln Glu Ser Phe Ile Met Gly Pro Val Thr  
85 90 95  
Pro Ala His Ala Gly Thr Tyr Arg Cys Arg Gly Ser Arg Pro His Ser  
100 105 110  
Leu Thr Gly Trp Ser Ala Pro Ser Asn Pro Leu Val Ile Met Val Thr  
115 120 125  
Gly Asn His Arg Lys Pro Ser Leu Leu Ala His Pro Gly Pro Leu Leu  
130 135 140  
Lys Ser Gly Glu Thr Val Ile Leu Gln Cys Trp Ser Asp Ile Met Phe  
145 150 155 160  
Glu His Phe Phe Leu His Lys Glu Gly Ile Ser Lys Asp Pro Ser Arg  
165 170 175  
Leu Val Gly Gln Ile His Asp Gly Val Ser Lys Ala Asn Phe Ser Ile  
180 185 190  
Gly Pro Met Met Leu Ala Leu Ala Gly Thr Tyr Arg Cys Tyr Gly Ser  
195 200 205  
Val Thr His Thr Pro Tyr Gln Leu Ser Ala Pro Ser Asp Pro Leu Asp  
210 215 220  
Ile Val Val Thr Gly Pro Tyr Glu Lys Pro Ser Leu Ser Ala Gln Pro  
225 230 235 240  
Gly Pro Lys Val Gln Ala Gly Glu Ser Val Thr Leu Ser Cys Ser Ser  
245 250 255  
Arg Ser Ser Tyr Asp Met Tyr His Leu Ser Arg Glu Gly Ala His  
260 265 270  
Glu Arg Arg Leu Pro Ala Val Arg Lys Val Asn Arg Thr Phe Gln Ala  
275 280 285  
Asp Phe Pro Leu Gly Pro Ala Thr His Gly Gly Thr Tyr Arg Cys Phe  
290 295 300  
Gly Ser Phe Arg His Ser Pro Tyr Glu Trp Ser Asp Pro Ser Asp Pro  
305 310 315 320  
Leu Leu Val Ser Val Thr Gly Asn Pro Ser Ser Ser Trp Pro Ser Pro  
325 330 335  
Thr Glu Pro Ser Ser Lys Ser Gly Asn Leu Arg His Leu His Ile Leu  
340 345 350  
Ile Gly Thr Ser Val Val Lys Ile Pro Phe Thr Ile Leu Leu Phe Phe  
355 360 365  
Leu Leu His Arg Trp Cys Ser Asn Lys Lys Asn Ala Ala Val Met Asp  
370 375 380  
Gln Glu Pro Ala Gly Asn Arg Val Asn Ser Glu Asp Ser Asp Glu Gln  
385 390 395 400  
Asp His Gln Glu Val Ser Tyr Pro Xaa Leu Glu His Cys Val Phe Thr  
405 410 415  
Gln Arg Lys Ile Thr Arg Pro Ser Gln Arg Pro Lys Thr Pro Pro Thr  
420 425 430  
Asp Thr Ser Met Tyr Ile Glu Leu Pro Asn Ala Glu Pro Arg Ser Lys

435	440	445
Val Val Phe Cys Pro Arg Ala Pro Gln Ser Gly Leu Glu Gly Ile Phe		
450	455	460
		464

<210> 1265  
<211> 1879  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(1879)  
<223> X = any amino acid or stop code

<400> 1265		
Leu His Asn Leu Arg Arg Glu Tyr Phe Ser Gly Leu Ile Tyr Thr Tyr		
1	5	10
Ser Gly Leu Phe Cys Val Val Val Asn Pro Tyr Lys His Leu Pro Ile		
20	25	30
Tyr Ser Glu Lys Ile Val Asp Met Tyr Lys Gly Lys Lys Arg His Glu		
35	40	45
Met Pro Pro His Ile Tyr Ala Ile Ala Asp Thr Ala Tyr Arg Ser Met		
50	55	60
Leu Gln Asp Arg Glu Asp Gln Ser Ile Leu Cys Thr Gly Glu Ser Gly		
65	70	75
Ala Gly Lys Thr Glu Asn Thr Lys Lys Val Ile Gln Tyr Leu Ala Val		
85	90	95
Val Ala Ser Ser His Lys Gly Lys Lys Asp Thr Ser Ile Thr Gly Glu		
100	105	110
Leu Glu Lys Gln Ile Leu Gln Ala Asn Pro Ile Leu Glu Ala Phe Gly		
115	120	125
Asn Ala Lys Thr Val Lys Asn Asp Asn Ser Ser Arg Phe Gly Lys Phe		
130	135	140
Ile Arg Ile Asn Phe Asp Val Thr Gly Tyr Ile Val Gly Ala Asn Ile		
145	150	155
Glu Thr Tyr Leu Leu Glu Lys Ser Arg Ala Ile Arg Gln Ala Arg Asp		
165	170	175
Glu Arg Thr Phe His Ile Phe Tyr Tyr Met Ile Ala Gly Ala Lys Glu		
180	185	190
Lys Met Arg Ser Asp Leu Leu Leu Glu Gly Phe Asn Asn Tyr Thr Phe		
195	200	205
Leu Ser Asn Gly Phe Val Pro Ile Pro Ala Ala Gln Asp Asp Glu Met		
210	215	220
Phe Gln Glu Thr Val Glu Ala Met Ala Ile Met Gly Phe Ser Glu Glu		
225	230	235
Glu Gln Leu Ser Ile Leu Lys Val Val Ser Ser Val Gln Leu Gln Leu Gly		
245	250	255
Asn Ile Val Phe Lys Lys Glu Arg Asn Thr Asp Gln Ala Ser Met Pro		
260	265	270
Asp Asn Thr Ala Ala Gln Lys Val Cys His Leu Met Gly Ile Asn Val		
275	280	285
Thr Asp Phe Thr Arg Ser Ile Leu Thr Pro Arg Ile Lys Val Gly Arg		
290	295	300
Asp Val Val Gln Lys Ala Gln Thr Lys Glu Gln Ala Asp Phe Ala Val		
305	310	315
Glu Ala Leu Ala Lys Ala Thr Tyr Glu Arg Leu Phe Arg Trp Ile Leu		
325	330	335

Thr Arg Val Asn Lys Ala Leu Asp Lys Thr His Arg Gln Gly Ala Ser  
     340                          345                          350  
 Phe Leu Gly Ile Leu Asp Ile Ala Gly Phe Glu Ile Phe Glu Val Asn  
     355                          360                          365  
 Ser Phe Glu Gln Leu Cys Ile Asn Tyr Thr Asn Glu Lys Leu Gln Gln  
     370                          375                          380  
 Leu Phe Asn His Thr Met Phe Ile Leu Glu Gln Glu Glu Tyr Gln Arg  
     385                          390                          395                          400  
 Glu Gly Ile Glu Glu Trp Asn Phe Ile Asp Phe Gly Leu Asp Leu Gln Pro  
     405                          410                          415  
 Cys Ile Glu Leu Ile Glu Arg Pro Asn Asn Pro Pro Gly Val Leu Ala  
     420                          425                          430  
 Leu Leu Asp Glu Glu Cys Trp Phe Pro Lys Ala Thr Asp Lys Ser Phe  
     435                          440                          445  
 Val Glu Lys Leu Cys Thr Glu Gln Gly Ser His Pro Lys Phe Gln Lys  
     450                          455                          460  
 Pro Lys Gln Leu Lys Asp Lys Thr Glu Phe Ser Ile Ile His Tyr Ala  
     465                          470                          475                          480  
 Gly Lys Val Asp Tyr Asn Ala Ser Ala Trp Leu Thr Lys Asn Met Asp  
     485                          490                          495  
 Pro Leu Asn Asp Asn Val Thr Ser Leu Leu Asn Ala Ser Ser Asp Lys  
     500                          505                          510  
 Phe Val Ala Asp Leu Trp Lys Asp Val Asp Arg Ile Val Gly Leu Asp  
     515                          520                          525  
 Gln Met Ala Lys Met Thr Glu Ser Ser Leu Pro Ser Ala Ser Lys Thr  
     530                          535                          540  
 Lys Lys Gly Met Phe Arg Thr Val Gly Gln Leu Tyr Lys Glu Gln Leu  
     545                          550                          555                          560  
 Gly Lys Leu Met Thr Thr Leu Arg Asn Thr Thr Pro Asn Phe Val Arg  
     565                          570                          575  
 Cys Ile Ile Pro Asn His Glu Lys Arg Ser Gly Lys Leu Asp Ala Phe  
     580                          585                          590  
 Leu Val Leu Glu Gln Leu Arg Cys Asn Gly Val Leu Glu Gly Ile Arg  
     595                          600                          605  
 Ile Cys Arg Gln Gly Phe Pro Asn Arg Ile Val Phe Gln Glu Phe Arg  
     610                          615                          620  
 Gln Arg Tyr Glu Ile Leu Ala Ala Asn Ala Ile Pro Lys Gly Phe Met  
     625                          630                          635                          640  
 Asp Gly Lys Gln Ala Cys Ile Leu Met Ile Lys Ala Leu Glu Leu Asp  
     645                          650                          655  
 Pro Asn Leu Tyr Arg Ile Gly Gln Ser Lys Ile Phe Phe Arg Thr Gly  
     660                          665                          670  
 Val Leu Ala His Leu Glu Glu Glu Arg Asp Leu Lys Ile Thr Asp Val  
     675                          680                          685  
 Ile Met Ala Phe Gln Ala Met Cys Arg Gly Tyr Leu Ala Arg Lys Ala  
     690                          695                          700  
 Phe Ala Lys Arg Gln Gln Leu Thr Ala Met Lys Val Ile Gln Arg  
     705                          710                          715                          720  
 Asn Cys Ala Ala Tyr Ile Lys Leu Arg Asn Trp Gln Trp Cys Arg Leu  
     725                          730                          735  
 Phe Thr Lys Val Xaa Pro Leu Leu Gln Val Thr Arg Gln Glu Xaa Glu  
     740                          745                          750  
 Met Gln Ala Lys Glu Asp Glu Leu Gln Lys Thr Lys Glu Arg Gln Gln  
     755                          760                          765  
 Lys Ala Glu Asn Glu Leu Lys Glu Leu Glu Gln Lys His Ser Gln Leu  
     770                          775                          780  
 Thr Glu Glu Lys Asn Leu Leu Gln Glu Gln Leu Gln Ala Glu Thr Glu  
     785                          790                          795                          800  
 Leu Tyr Ala Glu Ala Glu Glu Met Arg Val Arg Leu Ala Ala Lys Lys  
     805                          810                          815  
 Gln Glu Leu Glu Ile Leu His Glu Met Glu Ala Arg Leu Glu Glu  
     820                          825                          830  
 Glu Glu Asp Arg Gly Gln Gln Leu Gln Ala Glu Arg Lys Lys Met Ala  
     835                          840                          845

Gln Gln Met Leu Asp Leu Glu Glu Gln Leu Glu Glu Glu Ala Ala  
   850                         855                         860  
 Arg Gln Lys Leu Gln Leu Glu Lys Val Thr Ala Glu Ala Lys Ile Lys  
   865                         870                         875                         880  
 Lys Leu Glu Asp Glu Ile Leu Val Met Asp Asp Gln Asn Asn Lys Leu  
   885                         890                         895  
 Ser Lys Glu Arg Lys Leu Leu Glu Glu Arg Ile Ser Asp Leu Thr Thr  
   900                         905                         910  
 Asn Leu Ala Glu Glu Glu Lys Ala Lys Asn Leu Thr Lys Leu Lys  
   915                         920                         925  
 Asn Lys His Glu Ser Met Ile Ser Glu Leu Glu Val Arg Leu Lys Lys  
   930                         935                         940  
 Glu Glu Lys Ser Arg Gln Glu Leu Glu Lys Leu Lys Arg Lys Leu Glu  
   945                         950                         955                         960  
 Gly Asp Ala Ser Asp Phe His Glu Gln Ile Ala Asp Leu Gln Ala Gln  
   965                         970                         975  
 Ile Ala Glu Leu Lys Met Gln Leu Ala Lys Lys Glu Glu Glu Leu Glu  
   980                         985                         990  
 Ala Ala Ala Arg Leu Asp Asp Glu Ile Ala Gln Lys Asn Asn Ala  
   995                         1000                         1005  
 Leu Lys Lys Ile Arg Glu Leu Glu Gly His Ile Ser Asp Leu Gln Glu  
   1010                         1015                         1020  
 Asp Leu Asp Ser Glu Arg Ala Ala Arg Asn Lys Ala Glu Lys Gln Lys  
   1025                         1030                         1035                         1040  
 Arg Asp Leu Gly Glu Glu Leu Glu Ala Leu Lys Thr Glu Leu Glu Asp  
   1045                         1050                         1055  
 Thr Leu Asp Ser Thr Ala Thr Gln Gln Glu Leu Arg Ala Lys Arg Glu  
   1060                         1065                         1070  
 Gln Glu Val Thr Val Leu Lys Arg Ala Leu Asn Glu Glu Thr Arg Ser  
   1075                         1080                         1085  
 His Glu Ala Gln Val Gln Glu Met Arg Gln Lys His Ala Gln Ala Val  
   1090                         1095                         1100  
 Gln Ser Leu Thr Glu Gln Leu Glu Gln Xaa Lys Arg Ala Lys Ala Asn  
   1105                         1110                         1115                         1120  
 Leu Asp Lys Asn Lys Glu Thr Leu Glu Lys Glu Asn Thr Asp Leu Ala  
   1125                         1130                         1135  
 Gly Glu Leu Arg Val Leu Gly Gln Ala Lys Gln Glu Val Glu His Arg  
   1140                         1145                         1150  
 Met Lys Lys Leu Gln Ala Gln Val Gln Glu Leu Gln Ser Lys Cys Ser  
   1155                         1160                         1165  
 Asp Gly Glu Arg Ala Arg Ala Glu Leu Asn Asp Lys Val His Lys Leu  
   1170                         1175                         1180  
 Gln Asn Glu Val Glu Ser Val Thr Gly Met Leu Asn Glu Ala Glu Gly  
   1185                         1190                         1195                         1200  
 Lys Ala Ile Lys Leu Ala Lys Asp Val Ala Ser Leu Ser Ser Gln Leu  
   1205                         1210                         1215  
 Gln Asp Thr Gln Glu Leu Leu Gln Glu Ser Arg Gln Lys Leu Asn  
   1220                         1225                         1230  
 Val Ser Thr Ser Leu Arg Gln Leu Glu Glu Arg Asn Ser Leu Gln  
   1235                         1240                         1245  
 Asp Gln Leu Asp Glu Glu Met Glu Ala Lys Gln Asn Leu Glu Arg His  
   1250                         1255                         1260  
 Ile Ser Thr Leu Asn Ile Gln Leu Ser Asp Ser Lys Lys Lys Leu Gln  
   1265                         1270                         1275                         1280  
 Asp Phe Ala Ser Thr Val Glu Ala Leu Glu Glu Gly Lys Lys Arg Phe  
   1285                         1290                         1295  
 Gln Lys Glu Ile Glu Asn Leu Thr Gln Gln Tyr Glu Glu Lys Ala Ala  
   1300                         1305                         1310  
 Ala Tyr Asp Lys Leu Glu Lys Thr Lys Asn Arg Leu Gln Gln Glu Leu  
   1315                         1320                         1325  
 Asp Asp Leu Val Val Asp Leu Asp Asn Gln Arg Gln Leu Val Ser Asn  
   1330                         1335                         1340  
 Leu Glu Lys Lys Gln Arg Lys Phe Asp Gln Leu Leu Ala Glu Glu Lys  
   1345                         1350                         1355                         1360

Asn Ile Ser Ser Lys Tyr Ala Asp Glu Arg Asp Arg Val Glu Ala Glu  
                   1365                   1370                   1375  
 Ala Arg Glu Lys Glu Thr Lys Ala Leu Ser Leu Ala Arg Ala Leu Glu  
                   1380                   1385                   1390  
 Glu Ala Leu Glu Ala Lys Glu Glu Leu Glu Arg Thr Asn Lys Met Leu  
                   1395                   1400                   1405  
 Lys Ala Glu Met Gly Arg Pro Gly Ser Ala Ser Lys Asp Asp Val Gly  
                   1410                   1415                   1420  
 Gln Glu Leu Ser His Asp Leu Glu Lys Ser Lys Arg Ala Leu Gly Asp  
                   1425                   1430                   1435                   1440  
 Pro Arg Leu Glu Glu Met Lys Thr Gln Leu Glu Leu Gly Arg Thr  
                   1445                   1450                   1455  
 Glu Leu Ala Ser Pro Arg Arg Asp Ala Lys Leu Arg Leu Glu Val Asn  
                   1460                   1465                   1470  
 Met Gln Ala Pro Ser Arg Ala Ser Phe Glu Arg Asp Leu Gln Ala Arg  
                   1475                   1480                   1485  
 Thr Glu Gln Asn Glu Glu Ser Arg Arg His Leu Gln Arg Gln Leu His  
                   1490                   1495                   1500  
 Glu Tyr Glu Thr Glu Leu Glu Asp Glu Arg Lys Gln Arg Ala Leu Ala  
                   1505                   1510                   1515                   1520  
 Ala Ala Ala Lys Ile Lys Leu Gly Trp Asp Pro Val Arg Thr Leu Asp  
                   1525                   1530                   1535  
 Leu Xaa Ala Asp Ser Ala Ile Lys Gly Arg Gly Gly Lys Ala Ile Lys  
                   1540                   1545                   1550  
 Gln Leu Arg Lys Leu Gln Ala Gln Met Lys Asp Phe Gln Arg Glu Leu  
                   1555                   1560                   1565  
 Glu Asp Ala Arg Ala Ser Arg Asp Glu Ile Phe Ala Thr Ala Lys Glu  
                   1570                   1575                   1580  
 Asn Gln Lys Lys Ala Lys Ser Leu Glu Ala Asp Leu Met Gln Leu Gln  
                   1585                   1590                   1595                   1600  
 Glu Asp Leu Ala Ala Glu Glu Gly Arg Lys Gln Ala Asp Leu Glu  
                   1605                   1610                   1615  
 Lys Glu Glu Leu Ala Glu Glu Leu Ala Ser Ser Leu Ser Gly Arg Asn  
                   1620                   1625                   1630  
 Ala Leu Gln Asp Glu Lys Arg Arg Leu Glu Ala Arg Ile Ala Gln Leu  
                   1635                   1640                   1645  
 Glu Glu Glu Leu Glu Glu Gln Gln Asn Met Glu Ala Met Ser Asp  
                   1650                   1655                   1660  
 Arg Val Arg Lys Ala Thr Gln Gln Ala Glu Gln Leu Ser Asn Glu Leu  
                   1665                   1670                   1675                   1680  
 Ala Thr Glu Arg Ser Thr Ala Gln Lys Asn Glu Ser Ala Arg Gln Gln  
                   1685                   1690                   1695  
 Leu Glu Arg Gln Asn Lys Glu Leu Arg Ser Lys Leu His Glu Met Glu  
                   1700                   1705                   1710  
 Gly Ala Val Lys Ser Lys Phe Lys Ser Thr Ile Ala Ala Leu Glu Ala  
                   1715                   1720                   1725  
 Lys Ile Ala Gln Leu Glu Glu Gln Val Glu Gln Glu Ala Arg Glu Lys  
                   1730                   1735                   1740  
 Gln Ala Ala Thr Lys Ser Leu Lys Gln Lys Asp Lys Lys Leu Lys Glu  
                   1745                   1750                   1755                   1760  
 Ile Leu Leu Glu Val Glu Asp Glu Arg Lys Met Ala Glu Gln Tyr Lys  
                   1765                   1770                   1775  
 Glu Gln Ala Lys Gly Asn Ala Arg Val Lys Gln Leu Lys Arg Gln  
                   1780                   1785                   1790  
 Leu Glu Glu Ala Glu Glu Glu Ser Gln Arg Ile Asn Ala Asn Arg Arg  
                   1795                   1800                   1805  
 Lys Leu Gln Arg Glu Leu Asp Glu Ala Thr Glu Ser Asn Glu Ala Met  
                   1810                   1815                   1820  
 Gly Arg Glu Val Asn Ala Leu Lys Ser Lys Leu Arg Arg Gly Asn Glu  
                   1825                   1830                   1835                   1840  
 Thr Ser Phe Val Pro Ser Arg Arg Ser Gly Gly Arg Arg Val Ile Glu  
                   1845                   1850                   1855  
 Asn Ala Asp Gly Ser Glu Glu Glu Thr Asp Thr Arg Asp Ala Asp Phe  
                   1860                   1865                   1870

Asn Gly Thr Lys Ala Ser Glu  
 1875 1879

<210> 1266  
<211> 257  
<212>Amino acid  
<213> Homo sapiens

<400> 1266  
Lys Leu His Phe Ala Lys Ser Leu Asn Ser Glu Leu Ser Cys Ser Thr  
 1 5 10 15  
Arg Glu Ala Met Gln Asp Glu Asp Gly Tyr Ile Thr Leu Asn Ile Lys  
 20 25 30  
Thr Arg Lys Pro Ala Leu Val Ser Val Gly Pro Ala Ser Ser Ser Trp  
 35 40 45  
Trp Arg Val Met Ala Leu Ile Leu Leu Ile Cys Val Gly Met Val  
 50 55 60  
Val Gly Leu Val Ala Leu Gly Ile Trp Ser Val Met Gln Arg Asn Tyr  
 65 70 75 80  
Leu Gln Asp Glu Asn Glu Asn Arg Thr Gly Thr Leu Gln Gln Leu Ala  
 85 90 95  
Lys Arg Phe Cys Gln Tyr Val Val Lys Gln Ser Glu Leu Lys Gly Thr  
 100 105 110  
Phe Lys Gly His Lys Cys Ser Pro Cys Asp Thr Asn Trp Arg Tyr Tyr  
 115 120 125  
Gly Asp Ser Cys Tyr Gly Phe Arg His Asn Leu Thr Trp Glu Glu  
 130 135 140  
Ser Lys Gln Tyr Cys Thr Asp Met Asn Ala Thr Leu Leu Lys Ile Asp  
 145 150 155 160  
Asn Arg Asn Ile Val Glu Tyr Ile Lys Ala Arg Thr His Leu Ile Arg  
 165 170 175  
Trp Val Gly Leu Ser Arg Gln Lys Ser Asn Glu Val Trp Lys Trp Glu  
 180 185 190  
Asp Gly Ser Val Ile Ser Glu Asn Met Phe Glu Phe Leu Glu Asp Gly  
 195 200 205  
Lys Gly Asn Met Asn Cys Ala Tyr Phe His Asn Gly Lys Met His Pro  
 210 215 220  
Thr Phe Cys Glu Asn Lys His Tyr Leu Met Cys Glu Arg Lys Ala Gly  
 225 230 235 240  
His Asp Pro Arg Trp Thr Gln Leu Pro Leu Met Pro Lys Arg Trp Thr  
 245 250 255  
Gly  
 257

<210> 1267  
<211> 208  
<212>Amino acid  
<213> Homo sapiens

<400> 1267  
Asn Gln Gly Leu Arg Asp Val Gly Leu Cys Arg Thr Cys Leu Val Asn  
 1 5 10 15  
Lys Ile Phe Ala Ser Ser Ile Leu Gly Lys Ser His His His Ser Leu  
 20 25 30

Val	Ser	Ile	Asn	Gln	Gly	His	Asn	Ala	Pro	Trp	Lys	Ala	Ala	Gly	Ser
35					40						45				
Leu	Pro	Leu	Lys	Ala	Ala	Tyr	Cys	Gln	Gly	Phe	Ser	Pro	Cys	Asp	Cys
50					55						60				
Leu	Lys	Tyr	Gly	Ser	Trp	Asp	Glu	Lys	Asp	Leu	Met	Val	Pro	Gln	Pro
65					70						75				80
Asp	Thr	His	Lys	Gly	Ser	Val	Leu	Arg	Trp	Ile	Ser	Lys	Arg	Gly	Lys
					85						90				95
Pro	Leu	Ala	Val	Glu	Met	Glu	Gly	His	Cys	Leu	Cys	Leu	Pro	Leu	
					100						105				110
Gly	Thr	Glu	Cys	Leu	Gly	Val	Lys	Pro	Ile	Val	His	Leu	Phe	Asn	Ser
					115						120				125
Glu	Met	Gly	Glu	Lys	Arg	Pro	Val	Ala	Gly	Ala	Arg	His	Val	Gly	Ser
					130						135				140
Ser	Ala	Ala	Leu	Leu	Phe	Phe	Thr	Pro	Leu	Arg	Cys	Leu	Gly	Gly	Glu
					145						150				160
Lys	His	Lys	Ser	Gly	Leu	Arg	Ala	Arg	Pro	Gly	Ile	Val	Pro	Ser	Leu
					165						170				175
Glu	Leu	Asn	Tyr	Asp	Ile	Asp	Ser	Phe	Ala	His	Met	Phe	Phe	Ser	Val
					180						185				190
Asp	Leu	Leu	Leu	Ile	Ile	Thr	Leu	Leu	Ser	Tyr	Tyr	Ile	Pro	Phe	Cys
					195						200				205
															208

<210> 1268  
 <211> 158  
 <212>Amino acid  
 <213> Homo sapiens

Met	Trp	Trp	Arg	Leu	Ala	Pro	Thr	Gln	Ala	Ile	Trp	Arg	Ala	Ala	Gly
1					5						10				15
Cys	Cys	Met	Arg	Phe	Ser	Arg	Arg	Arg	Ser	Thr	Cys	Cys	Cys	Leu	Ala
											20				30
Ser	Cys	Ile	Phe	Leu	Leu	Tyr	Lys	Ile	Val	Arg	Gly	Asp	Gln	Pro	Ala
											35				45
Ala	Lys	Arg	Arg	Gln	Arg	Arg	Arg	Arg	Ala	Ala	Pro	Ser	Ala	Pro	Pro
											50				60
Gln	Ala	Ala	Arg	Leu	His	Pro	Pro	Pro	Lys	Leu	Arg	Arg	Phe	Asp	Gly
											65				80
Val	Gln	Asp	Pro	Ala	Pro	Tyr	Ser	Trp	Ala	Ile	Asn	Gly	Lys	Val	Phe
											85				95
Asp	Val	Thr	Gln	Arg	Pro	Ala	Asn	Phe	Leu	Arg	Gly	Pro	Arg	Gly	Pro
											100				110
Glu	Thr	Leu	Ser	Asp	Trp	Glu	Ser	Gln	Phe	Thr	Phe	Lys	Tyr	His	
											115				125
Val	Gly	Lys	Leu	Leu	Lys	Glu	Gly	Glu	Glu	Pro	Thr	Val	Tyr	Ser	Asp
											130				140
Glu	Glu	Glu	Pro	Lys	Asp	Glu	Ser	Ala	Arg	Lys	Asn	Asp	*		
											145				155
															157

<210> 1269  
 <211> 178  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1269  
 Gly Pro Arg Met Ala Lys Phe Leu Ser Gln Asp Gln Ile Asn Glu Tyr  
 1 5 10 15  
 Lys Glu Cys Phe Ser Leu Tyr Asp Lys Gln Gln Arg Gly Lys Ile Lys  
 20 25 30  
 Ala Thr Asp Leu Met Val Ala Met Arg Cys Leu Gly Ala Ser Pro Thr  
 35 40 45  
 Pro Gly Glu Val Gln Arg His Leu Gln Thr His Gly Ile Asp Gly Asn  
 50 55 60  
 Gly Glu Leu Asp Phe Ser Thr Phe Leu Thr Ile Met His Met Gln Ile  
 65 70 75 80  
 Lys Gln Glu Asp Pro Lys Lys Glu Ile Leu Ala Met Leu Met Val  
 85 90 95  
 Asp Lys Glu Lys Lys Gly Tyr Val Met Ala Ser Asp Leu Arg Ser Lys  
 100 105 110  
 Leu Thr Ser Leu Gly Glu Lys Leu Thr His Lys Glu Val Asp Asp Leu  
 115 120 125  
 Phe Arg Glu Ala Asp Ile Glu Pro Asn Gly Lys Val Lys Tyr Asp Glu  
 130 135 140  
 Phe Ile His Lys Ile Thr Leu Leu Pro Gly Arg Asp Leu Leu Lys Glu  
 145 150 155 160  
 Glu Asn Gly Arg Ala Ser Pro Gly Pro Glu Asn Leu Glu Gln Leu Ile  
 165 170 175  
 Phe Leu  
 178

<210> 1270  
<211> 457  
<212>Amino acid  
<213> Homo sapiens

<400> 1270  
 Ala Asp Pro His Thr Thr Val Ile Arg Phe Phe Pro Ala Ala Ser Ala  
 1 5 10 15  
 Thr Lys Arg Val Leu Pro Pro Val Leu Arg Val Ser Ser Pro Arg Thr  
 20 25 30  
 Trp Asn Pro Asn Val Pro Glu Ser Pro Arg Ile Pro Ala Pro Arg Leu  
 35 40 45  
 Pro Lys Arg Met Ser Gly Ala Pro Thr Ala Gly Ala Ala Leu Met Leu  
 50 55 60  
 Cys Ala Ala Thr Ala Val Leu Leu Ser Ala Gln Gly Gly Pro Val Gln  
 65 70 75 80  
 Ser Lys Ser Pro Arg Phe Ala Ser Trp Asp Glu Met Asn Val Leu Ala  
 85 90 95  
 His Gly Leu Leu Gln Leu Gly Gln Gly Leu Arg Glu His Ala Glu Arg  
 100 105 110  
 Thr Arg Ser Gln Leu Ser Ala Leu Glu Arg Arg Leu Ser Ala Cys Gly  
 115 120 125  
 Ser Ala Cys Gln Gly Thr Glu Gly Ser Thr Asp Leu Pro Leu Ala Pro  
 130 135 140  
 Glu Ser Arg Val Asp Pro Glu Val Leu His Ser Leu Gln Thr Gln Leu  
 145 150 155 160  
 Lys Ala Gln Asn Ser Arg Ile Gln Gln Leu Phe His Lys Val Ala Gln  
 165 170 175  
 Gln Gln Arg His Leu Glu Lys Gln His Leu Arg Ile Gln His Leu Gln  
 180 185 190

Ser Gln Phe Gly Leu Leu Asp His Lys His Leu Asp His Glu Val Ala  
   195                         200                         205  
 Lys Pro Ala Arg Arg Lys Arg Leu Pro Glu Met Ala Gln Pro Val Asp  
   210                         215                         220  
 Pro Ala His Asn Val Ser Arg Leu His Arg Leu Pro Arg Asp Cys Gln  
   225                         230                         235                         240  
 Glu Leu Phe Gln Val Gly Glu Arg Gln Ser Gly Leu Phe Glu Ile Gln  
   245                         250                         255  
 Pro Gln Gly Ser Pro Pro Phe Leu Val Asn Cys Lys Met Thr Ser Asp  
   260                         265                         270  
 Gly Gly Trp Thr Val Ile Gln Arg Arg His Asp Gly Ser Val Asp Phe  
   275                         280                         285  
 Asn Arg Pro Trp Glu Ala Tyr Lys Ala Gly Phe Gly Asp Pro His Gly  
   290                         295                         300  
 Glu Phe Trp Leu Gly Leu Glu Lys Val His Ser Ile Thr Gly Asp Arg  
   305                         310                         315                         320  
 Asn Ser Arg Leu Ala Val Gln Leu Arg Asp Trp Asp Gly Asn Ala Glu  
   325                         330                         335  
 Leu Leu Gln Phe Ser Val His Leu Gly Glu Asp Thr Ala Tyr Ser  
   340                         345                         350  
 Leu Gln Leu Thr Ala Pro Val Ala Gly Gln Leu Gly Ala Thr Thr Val  
   355                         360                         365  
 Pro Pro Ser Gly Leu Ser Val Pro Phe Ser Thr Trp Asp Gln Asp His  
   370                         375                         380  
 Asp Leu Arg Arg Asp Lys Asn Cys Ala Lys Ser Leu Ser Gly Gly Trp  
   385                         390                         395                         400  
 Trp Phe Gly Thr Cys Ser His Ser Asn Leu Asn Gly Gln Tyr Phe Arg  
   405                         410                         415  
 Ser Ile Pro Gln Gln Arg Gln Lys Leu Lys Lys Gly Ile Phe Trp Lys  
   420                         425                         430  
 Thr Trp Arg Gly Arg Tyr Tyr Pro Leu Gln Ala Thr Thr Met Leu Ile  
   435                         440                         445  
 Gln Pro Met Ala Ala Glu Ala Ala Ser  
   450                         455                         457

<210> 1271  
 <211> 394  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1271  
 Ala Leu Asp Phe Gly Asp Ser Cys Gln Trp Pro Arg Pro Gln Asp Thr  
   1                 5                         10                         15  
 Met Lys Gln Leu Pro Val Leu Glu Pro Gly Asp Lys Pro Arg Lys Ala  
   20                         25                         30  
 Thr Trp Tyr Thr Leu Thr Val Pro Gly Asp Ser Pro Cys Ala Arg Val  
   35                         40                         45  
 Gly His Ser Cys Ser Tyr Leu Pro Pro Val Gly Asn Ala Lys Arg Gly  
   50                         55                         60  
 Lys Val Phe Ile Val Gly Gly Ala Asn Pro Asn Arg Ser Phe Ser Asp  
   65                         70                         75                         80  
 Val His Thr Met Asp Leu Gly Lys His Gln Trp Asp Leu Asp Thr Cys  
   85                         90                         95  
 Lys Gly Leu Leu Pro Arg Tyr Glu His Ala Ser Phe Ile Pro Ser Cys  
   100                         105                         110  
 Thr Pro Asp Arg Ile Trp Val Phe Gly Gly Ala Asn Gln Ser Gly Asn  
   115                         120                         125  
 Arg Asn Cys Leu Gln Val Leu Asn Pro Glu Thr Arg Thr Trp Thr Thr  
   130                         135                         140

Pro Glu Val Thr Ser Pro Pro Pro Ser Pro Arg Thr Phe His Thr Ser  
 145 150 155 160  
 Ser Ala Ala Ile Gly Asn Gln Leu Tyr Val Phe Gly Gly Glu Arg  
 165 170 175  
 Gly Ala Gln Pro Val Gln Asp Thr Lys Leu His Val Phe Asp Ala Asn  
 180 185 190  
 Thr Leu Thr Trp Ser Gln Pro Glu Thr Leu Gly Asn Pro Pro Ser Pro  
 195 200 205  
 Arg His Gly His Val Met Val Ala Ala Gly Thr Lys Leu Phe Ile His  
 210 215 220  
 Gly Gly Leu Ala Gly Asp Arg Phe Tyr Asp Asp Leu His Cys Ile Asp  
 225 230 235 240  
 Ile Ser Asp Met Lys Trp Gln Lys Leu Asn Pro Thr Gly Ala Ala Pro  
 245 250 255  
 Ala Gly Cys Ala Ser His Thr Pro Ala Val Ala Met Gly Lys His Val  
 260 265 270  
 Tyr Ile Phe Gly Gly Met Thr Pro Ala Gly Ala Pro Gly Thr Gln Cys  
 275 280 285  
 Thr Gln Tyr His Thr Glu Glu Gln His Trp Asp Pro Cys Leu Lys Phe  
 290 295 300  
 Asp Thr Pro Ser Tyr Pro Pro Gly Thr Ile Gly Thr His Ser His Val  
 305 310 315 320  
 Val Ser Phe Pro Trp Pro Val Thr Cys Ala Ser Glu Lys Glu Asp Ser  
 325 330 335  
 Asn Ser Leu Thr Leu Asn His Glu Ala Glu Lys Glu Asp Ser Ala Asp  
 340 345 350  
 Lys Val Met Ser His Ser Gly Asp Ser His Glu Glu Ser Gln Thr Ala  
 355 360 365  
 Thr Leu Leu Cys Leu Val Phe Gly Gly Met Asn Thr Glu Gly Glu Ile  
 370 375 380  
 Tyr Asp Asp Cys Ile Val Thr Val Val Asp  
 385 390 394

<210> 1272  
 <211> 176  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1272  
 Gly Phe Ser Ile Gly Lys Ala Thr Asp Arg Met Asp Ala Phe Arg Lys  
 1 5 10 15  
 Ala Lys Asn Arg Ala Val His His Leu His Tyr Ile Glu Arg Tyr Glu  
 20 25 30  
 Asp His Thr Ile Phe His Asp Ile Ser Leu Arg Phe Lys Arg Thr His  
 35 40 45  
 Ile Lys Met Lys Lys Gln Pro Lys Gly Tyr Gly Leu Arg Cys His Arg  
 50 55 60  
 Ala Ile Ile Thr Ile Cys Arg Leu Ile Gly Ile Lys Asp Met Tyr Ala  
 65 70 75 80  
 Lys Val Ser Gly Ser Ile Asn Met Leu Ser Leu Thr Gln Gly Leu Phe  
 85 90 95  
 Arg Gly Leu Ser Arg Gln Glu Thr His Gln Gln Leu Ala Asp Lys Lys  
 100 105 110  
 Gly Leu His Val Val Glu Ile Arg Glu Glu Cys Gly Pro Leu Pro Ile  
 115 120 125  
 Val Val Ala Ser Pro Arg Gly Pro Leu Arg Lys Asp Pro Glu Pro Glu  
 130 135 140  
 Asp Glu Val Pro Asp Val Lys Leu Asp Trp Glu Asp Val Lys Thr Ala  
 145 150 155 160

Gln Gly Met Lys Arg Ser Val Trp Ser Asn Leu Lys Arg Ala Ala Thr  
 165 170 175 176

<210> 1273  
<211> 457  
<212>Amino acid  
<213> Homo sapiens

<400> 1273  
Ala Asp Pro His Thr Thr Val Ile Arg Phe Phe Pro Ala Ala Ser Ala  
 1 5 10 15  
Thr Lys Arg Val Leu Pro Pro Val Leu Arg Val Ser Ser Pro Arg Thr  
 20 25 30  
Trp Asn Pro Asn Val Pro Glu Ser Pro Arg Ile Pro Ala Pro Arg Leu  
 35 40 45  
Pro Lys Arg Met Ser Gly Ala Pro Thr Ala Gly Ala Ala Leu Met Leu  
 50 55 60  
Cys Ala Ala Thr Ala Val Leu Ser Ala Gln Gly Gly Pro Val Gln  
 65 70 75 80  
Ser Lys Ser Pro Arg Phe Ala Ser Trp Asp Glu Met Asn Val Leu Ala  
 85 90 95  
His Gly Leu Leu Gln Leu Gly Gln Gly Leu Arg Glu His Ala Glu Arg  
 100 105 110  
Thr Arg Ser Gln Leu Ser Ala Leu Glu Arg Arg Leu Ser Ala Cys Gly  
 115 120 125  
Ser Ala Cys Gln Gly Thr Glu Gly Ser Thr Asp Leu Pro Leu Ala Pro  
 130 135 140  
Glu Ser Arg Val Asp Pro Glu Val Leu His Ser Leu Gln Thr Gln Leu  
 145 150 155 160  
Lys Ala Gln Asn Ser Arg Ile Gln Gln Leu Phe His Lys Val Ala Gln  
 165 170 175  
Gln Gln Arg His Leu Glu Lys Gln His Leu Arg Ile Gln His Leu Gln  
 180 185 190  
Ser Gln Phe Gly Leu Leu Asp His Lys His Leu Asp His Glu Val Ala  
 195 200 205  
Lys Pro Ala Arg Arg Lys Arg Leu Pro Glu Met Ala Gln Pro Val Asp  
 210 215 220  
Pro Ala His Asn Val Ser Arg Leu His Arg Leu Pro Arg Asp Cys Gln  
 225 230 235 240  
Glu Leu Phe Gln Val Gly Glu Arg Gln Ser Gly Leu Phe Glu Ile Gln  
 245 250 255  
Pro Gln Gly Ser Pro Pro Phe Leu Val Asn Cys Lys Met Thr Ser Asp  
 260 265 270  
Gly Gly Trp Thr Val Ile Gln Arg Arg His Asp Gly Ser Val Asp Phe  
 275 280 285  
Asn Arg Pro Trp Glu Ala Tyr Lys Ala Gly Phe Gly Asp Pro His Gly  
 290 295 300  
Glu Phe Trp Leu Gly Leu Glu Lys Val His Ser Ile Thr Gly Asp Arg  
 305 310 315 320  
Asn Ser Arg Leu Ala Val Gln Leu Arg Asp Trp Asp Gly Asn Ala Glu  
 325 330 335  
Leu Leu Gln Phe Ser Val His Leu Gly Gly Glu Asp Thr Ala Tyr Ser  
 340 345 350  
Leu Gln Leu Thr Ala Pro Val Ala Gln Leu Gly Ala Thr Thr Val  
 355 360 365  
Pro Pro Ser Gly Leu Ser Val Pro Phe Ser Thr Trp Asp Gln Asp His  
 370 375 380

Asp	Leu	Arg	Arg	Asp	Lys	Asn	Cys	Ala	Lys	Ser	Gly	Gly	Trp		
385				390					395				400		
Trp	Phe	Gly	Thr	Cys	Ser	His	Ser	Asn	Leu	Asn	Gly	Gln	Tyr	Phe	Arg
				405					410				415		
Ser	Ile	Pro	Gln	Gln	Arg	Gln	Lys	Leu	Lys	Lys	Gly	Ile	Phe	Trp	Lys
				420				425				430			430
Thr	Trp	Arg	Gly	Arg	Tyr	Tyr	Pro	Leu	Gln	Ala	Thr	Thr	Met	Leu	Ile
	435				440				445						
Gln	Pro	Met	Ala	Ala	Glu	Ala	Ala	Ser							
	450				455			457							

<210> 1274  
<211> 359  
<212>Amino acid  
<213> Homo sapiens

<400> 1274															
Thr	Leu	Arg	Ser	Arg	Pro	Ala	Gly	Glu	Ala	Gly	Tyr	Leu	Gly	Trp	Asp
1					5				10					15	
Pro	Glu	Gln	Ala	Gly	Glu	Gly	Ser	Ala	Leu	Ser	Arg	Pro	Gly	Ala	Met
					20				25					30	
Ala	Ala	Leu	Met	Thr	Pro	Gly	Thr	Gly	Ala	Pro	Pro	Ala	Pro	Gly	Asp
					35			40						45	
Phe	Ser	Gly	Gly	Gly	Ser	Gln	Gly	Leu	Pro	Asp	Pro	Ser	Pro	Glu	Pro
					50			55						60	
Lys	Gln	Leu	Pro	Glu	Leu	Ile	Arg	Met	Lys	Arg	Asp	Gly	Gly	Arg	Leu
					65			70						80	
Ser	Glu	Ala	Asp	Ile	Arg	Gly	Phe	Val	Ala	Ala	Val	Val	Asn	Gly	Ser
					85			90						95	
Ala	Gln	Gly	Ala	Gln	Ile	Gly	Ala	Trp	Gly	Gly	Leu	Gly	Val	Pro	Asp
					100			105						110	
Pro	Asp	Trp	Glu	Val	Ser	Pro	Arg	Asp	Phe	Gly	Ser	Leu	Gly	Val	Arg
					115			120						125	
Arg	Cys	Pro	Thr	Thr	Ser	Thr	Gly	Pro	Arg	Val	Pro	His	Arg	Cys	Gly
					130			135						140	
Leu	Pro	Pro	Ser	Arg	Val	Pro	Pro	His	Thr	Arg	Gly	Met	Ieu	Met	Ala
					145			150						155	
Ile	Arg	Leu	Arg	Gly	Met	Asp	Leu	Glu	Glu	Thr	Ser	Val	Leu	Thr	Gln
					165			170						175	
Ala	Leu	Ala	Gln	Ser	Gly	Gln	Gln	Leu	Trp	Pro	Glu	Ala	Trp	Arg	
					180			185						190	
Gln	Gln	Leu	Val	Asp	Lys	His	Ser	Thr	Gly	Gly	Val	Gly	Asp	Lys	Val
					195			200						205	
Ser	Leu	Val	Leu	Ala	Pro	Ala	Leu	Ala	Ala	Cys	Gly	Cys	Lys	Val	Ile
					210			215						220	
Asn	His	Leu	Leu	Ser	Arg	Arg	Glu	Pro	Ile	Pro	His	Met	Gln	Gln	Pro
					225			230						235	
Val	His	Pro	Gln	Ala	Ala	Pro	Asn	Leu	Lys	Pro	Gly	Pro	Lys	Pro	Pro
								245						250	
Arg	Pro	Tyr	Gln	Gly	Phe	Ser	Pro	Pro	Cys	Ser	Pro	Ala	Gln	Phe	Ser
					260			265						270	
Pro	Pro	Arg	Ser	Pro	Ala	Gln	Arg	Leu	Gly	Pro	Leu	Trp	Leu	Gln	Thr
					275			280						285	
Arg	Pro	Leu	Gly	Ala	Gly	Lys	Arg	Ser	Thr	Asp	Gly	Ile	Gln	Thr	Pro
					290			295						300	
Phe	Pro	Leu	Gly	Pro	Gln	Thr	Ala	Pro	Pro	Arg	Glu	Glu	Leu	Arg	Thr
					305			310						315	
Ser	Leu	Pro	Leu	Pro	Gln	Ala	Leu	Phe	Pro	Gln	Gly	Gln	Val	Pro	Thr
					325			330						335	

Ser Ser Pro Thr Asp Thr Ser Gln Pro Arg Lys Leu Pro Phe His Ser  
 340                                   345                                   350  
 Leu Thr Ser Trp Ala Pro Leu  
 355                                   359

<210> 1275  
<211> 146  
<212>Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> (1)...(146)  
<223> X = any amino acid or stop code

<400> 1275  
 Arg Ala Leu Arg Glu Leu Arg Glu Arg Val Thr His Gly Leu Ala Glu  
 1                         5                                   10                           15  
 Ala Gly Arg Asp Arg Glu Asp Val Ser Thr Glu Leu Tyr Arg Ala Leu  
 20                         25                                   30  
 Glu Ala Val Arg Leu Gln Asn Ser Glu Gly Ser Cys Glu Pro Cys Pro  
 35                         40                                   45  
 Thr Ser Trp Leu Pro Phe Gly Gly Ser Cys Tyr Tyr Phe Ser Val Pro  
 50                         55                                   60  
 Lys Thr Thr Trp Ala Glu Ala Gln Gly His Cys Ala Asp Ala Ser Ala  
 65                         70                                   75                           80  
 His Leu Ala Ile Val Gly Gly Leu Gly Glu Gln Asp Phe Leu Ser Arg  
 85                         90                                   95  
 Asp Thr Ser Ala Leu Glu Tyr Trp Ile Gly Arg Arg Ala Val Gln His  
 100                         105                                   110  
 Leu Arg Lys Val Gln Gly Tyr Ser Trp Val Asp Gly Val Pro Leu Ser  
 115                         120                                   125  
 Phe Arg Xaa Trp Glu Gly His Pro Gly Glu Thr Trp Gly Pro Gln Val  
 130                         135                                   140  
 Arg Leu  
 145 146

<210> 1276  
<211> 187  
<212>Amino acid  
<213> Homo sapiens

<400> 1276  
 Arg Trp Pro Arg Ser Trp Pro Pro Arg Ala Gly Ala Ala Arg Gly Ala  
 1                         5                                   10                           15  
 Ala Glu Ala Ala Met Val Gly Ala Leu Cys Gly Cys Trp Phe Arg Leu  
 20                         25                                   30  
 Gly Gly Ala Arg Pro Leu Ile Pro Leu Gly Pro Thr Val Val Gln Thr  
 35                         40                                   45  
 Ser Met Ser Arg Ser Gln Val Ala Leu Leu Gly Leu Ser Leu Leu Leu  
 50                         55                                   60  
 Met Leu Leu Leu Tyr Val Gly Leu Pro Gly Pro Pro Glu Gln Thr Ser  
 65                         70                                   75                           80  
 Cys Leu Trp Gly Asp Pro Asn Val Thr Val Leu Ala Gly Leu Thr Pro

85	90	95
Gly Asn Ser Pro Ile Phe Tyr Arg Glu Val Leu Pro Leu Asn Gln Ala		
100	105	110
His Arg Val Glu Val Cys Cys Phe Met Glu Arg Pro Leu Thr Leu Thr		
115	120	125
Arg Gly Ser Ser Trp Ala His Cys Ser Tyr Cys His Arg Gly Ala Thr		
130	135	140
Gly Pro Trp Pro Leu Thr Phe Gln Val Leu Gly Thr Arg His Leu Gln		
145	150	155
Arg Arg Gln Ala Gln Arg Gln Gly Gln Arg Cys Trp Ser Gly Arg		160
165	170	175
Cys Gly Thr Trp Arg Tyr Arg Met Pro Cys Trp		
180	185	187

<210> 1277  
<211> 481  
<212>Amino acid  
<213> Homo sapiens

<400> 1277															
Gln	Glu	Asn	Gln	Leu	Glu	Lys	Met	Lys	Phe	Ile	Phe	Ala	Phe		
1					5					10			15		
Phe	Gly	Gly	Val	His	Leu	Leu	Ser	Leu	Cys	Ser	Gly	Lys	Ala	Ile	Cys
					20					25			30		
Lys	Asn	Gly	Ile	Ser	Lys	Arg	Thr	Phe	Glu	Glu	Ile	Lys	Glu	Glu	Ile
					35			40			45				
Ala	Ser	Cys	Gly	Asp	Val	Ala	Lys	Ala	Ile	Ile	Asn	Leu	Ala	Val	Tyr
					50			55			60				
Gly	Lys	Ala	Gln	Asn	Arg	Ser	Tyr	Glu	Arg	Leu	Ala	Leu	Leu	Val	Asp
					65			70			75			80	
Thr	Val	Gly	Pro	Arg	Leu	Ser	Gly	Ser	Lys	Asn	Leu	Glu	Lys	Ala	Ile
					85				90			95			
Gln	Ile	Met	Tyr	Gln	Asn	Leu	Gln	Asp	Gly	Leu	Glu	Lys	Val	His	
					100				105			110			
Leu	Glu	Pro	Val	Arg	Ile	Pro	His	Trp	Glu	Arg	Gly	Glu	Glu	Ser	Ala
					115				120			125			
Val	Met	Leu	Glu	Pro	Arg	Ile	His	Lys	Ile	Ala	Ile	Leu	Gly		
					130				135			140			
Ser	Ser	Ile	Gly	Thr	Pro	Pro	Glu	Gly	Ile	Thr	Ala	Glu	Val	Leu	Val
					145				150			155			160
Val	Thr	Ser	Phe	Asp	Glu	Leu	Gln	Arg	Arg	Ala	Ser	Glu	Ala	Arg	Gly
					165				170			175			
Lys	Ile	Val	Val	Tyr	Asn	Gln	Pro	Tyr	Ile	Asn	Tyr	Ser	Arg	Thr	Val
					180				185			190			
Gln	Tyr	Arg	Thr	Gln	Gly	Ala	Val	Glu	Ala	Ala	Lys	Val	Gly	Ala	Leu
					195				200			205			
Ala	Ser	Leu	Ile	Arg	Ser	Val	Ala	Ser	Phe	Ser	Ile	Tyr	Ser	Pro	His
					210				215			220			
Thr	Gly	Ile	Gln	Glu	Tyr	Gln	Asp	Gly	Val	Pro	Lys	Ile	Pro	Thr	Ala
					225				230			235			240
Cys	Ile	Thr	Val	Glu	Asp	Ala	Glu	Met	Met	Ser	Arg	Met	Ala	Ser	His
					245				250			255			
Gly	Ile	Lys	Ile	Val	Ile	Gln	Leu	Lys	Met	Gly	Ala	Lys	Thr	Tyr	Pro
					260				265			270			
Asp	Thr	Asp	Ser	Phe	Asn	Thr	Val	Ala	Glu	Ile	Thr	Gly	Ser	Lys	Tyr
					275				280			285			
Pro	Glu	Gln	Val	Val	Leu	Val	Ser	Gly	His	Leu	Asp	Ser	Trp	Asp	Val
					290				295			300			
Gly	Gln	Gly	Ala	Met	Asp	Asp	Gly	Gly	Ala	Phe	Ile	Ser	Trp	Glu	

305	310	315	320
Ala Leu Ser Leu Ile Lys Asp Leu Gly Leu Arg Pro Lys Arg Thr Leu	325	330	335
Arg Leu Val Leu Trp Thr Ala Glu Glu Gln Gly Val Gly Ala Phe	340	345	350
Gln Tyr Tyr Gln Leu His Lys Val Asn Ile Ser Asn Tyr Ser Leu Val	355	360	365
Met Glu Ser Asp Ala Gly Thr Phe Leu Pro Thr Gly Leu Gln Phe Thr	370	375	380
Gly Ser Glu Lys Ala Arg Ala Ile Met Glu Glu Val Met Ser Leu Leu	385	390	395
Gln Pro Leu Asn Ile Thr Gln Val Leu Ser His Gly Glu Gly Thr Asp	405	410	415
Ile Asn Phe Trp Ile Gln Ala Gly Val Pro Gly Ala Ser Leu Leu Asp	420	425	430
Asp Leu Tyr Lys Tyr Phe Phe His His Ser His Gly Asp Thr Met	435	440	445
Thr Val His Gly Ile Gln Thr Gln Met Asn Val Ala Ala Ala Val Trp	450	455	460
Ala Val Val Ser Tyr Val Val Ala Asp Met Glu Glu Met Leu Pro Arg	465	470	475
Ser			480
481			

<210> 1278  
<211> 428  
<212>Amino acid  
<213> Homo sapiens

<400> 1278			
Thr Lys Pro Arg Lys Arg Arg His Gln Pro Ala Ser Gln Arg Gln Arg	1	5	10
Pro Trp Ser Ser Asp Ser Thr Gly Asp Leu Leu Ala Arg Gly Lys Gly	20	25	30
Arg Lys Glu Glu Asn Lys Gly Ser Asp Arg Val Ser Leu Ala Pro Pro	35	40	45
Ser Leu Arg Arg Pro Met Met Cys Gln Ser Glu Ala Arg Gln Gly Pro	50	55	60
Glu Leu Arg Ala Ala Lys Trp Leu His Phe Pro Gln Leu Ala Leu Arg	65	70	75
Arg Arg Leu Gly Gln Leu Ser Cys Met Ser Arg Pro Ala Leu Lys Leu	85	90	95
Arg Ser Trp Pro Leu Thr Val Leu Tyr Tyr Leu Leu Pro Phe Gly Ala	100	105	110
Leu Arg Pro Leu Ser Arg Val Gly Trp Arg Pro Val Ser Arg Val Ala	115	120	125
Leu Tyr Lys Ser Val Pro Thr Arg Leu Leu Ser Arg Ala Trp Gly Arg	130	135	140
Leu Asn Gln Val Glu Leu Pro His Trp Leu Arg Arg Pro Val Tyr Ser	145	150	155
Leu Tyr Ile Trp Thr Phe Gly Val Asn Met Lys Glu Ala Ala Val Glu	165	170	175
Asp Leu His His Tyr Arg Asn Leu Ser Glu Phe Phe Arg Arg Lys Leu	180	185	190
Lys Pro Gln Ala Arg Pro Val Cys Gly Leu His Ser Val Ile Ser Pro	195	200	205
Ser Asp Gly Arg Ile Leu Asn Phe Gly Gln Val Lys Asn Cys Glu Val	210	215	220
Glu Gln Val Lys Gly Val Thr Tyr Ser Leu Glu Ser Phe Leu Gly Pro			

225	230	235	240
Arg Met Cys Thr Glu Asp Leu Pro Phe Pro Pro Ala Ala Ser Cys Asp	245	250	255
Ser Phe Lys Asn Gln Leu Val Thr Arg Glu Gly Asn Glu Leu Tyr His	250	265	270
Cys Val Ile Tyr Leu Ala Pro Gly Asp Tyr His Cys Phe His Ser Pro	275	280	285
Thr Asp Trp Thr Val Ser His Arg Arg His Phe Pro Gly Ser Leu Met	290	295	300
Ser Val Asn Pro Gly Met Ala Arg Trp Ile Lys Glu Leu Phe Cys His	305	310	315
Asn Glu Arg Val Val Leu Thr Gly Asp Trp Lys His Gly Phe Phe Ser	325	330	335
Leu Thr Ala Val Gly Ala Thr Asn Trp Gly Ser Ile Arg Ile Tyr Phe	340	345	350
Asp Arg Asp Leu His Thr Asn Ser Pro Arg His Ser Lys Gly Ser Tyr	355	360	365
Asn Asp Phe Ser Phe Val Thr His Thr Asn Arg Glu Gly Val Pro Met	370	375	380
Arg Lys Gly Glu His Leu Gly Glu Phe Asn Leu Gly Ser Thr Ile Val	385	390	395
Leu Ile Phe Glu Ala Pro Lys Asp Phe Asn Phe Gln Leu Lys Thr Gly	405	410	415
Gln Lys Ile Arg Phe Gly Glu Ala Leu Gly Ser Leu	420	425	428

<210> 1279  
<211> 633  
<212>Amino acid  
<213> Homo sapiens

<400> 1279
Leu Pro Glu Arg Ala Phe Gly Pro Arg Thr Pro Arg Ala Pro Arg Arg
1 5 10 15
Arg Arg Arg Arg Leu Leu Leu Ser Pro Pro Pro Arg Pro Pro Pro
20 25 30
Leu Asp Arg Glu Pro Arg Ala Pro Pro Gly Pro Trp Leu Cys Pro Ser Arg
35 40 45
Ala Gly Thr Ala Gln Asp Pro Ala Arg Ile Arg Glu Arg Arg Gly Arg
50 55 60
Val Ala Gly Gly Ala Ala Gly Pro Ala Met Glu Leu Arg Ala Arg Gly
65 70 75 80
Trp Trp Leu Leu Cys Ala Ala Ala Leu Val Ala Cys Ala Arg Gly
85 90 95
Asp Pro Ala Ser Lys Ser Arg Ser Cys Gly Glu Val Arg Gln Ile Tyr
100 105 110
Gly Ala Lys Gly Phe Ser Ser Ser Asp Val Pro Gln Ala Glu Ile Ser
115 120 125
Gly Glu His Leu Arg Ile Cys Pro Gln Gly Tyr Thr Cys Cys Thr Ser
130 135 140
Glu Met Glu Glu Asn Leu Ala Asn Arg Ser His Ala Glu Leu Glu Thr
145 150 155 160
Ala Leu Arg Asp Ser Ser Arg Val Leu Gln Ala Met Leu Ala Thr Gln
165 170 175
Leu Arg Ser Phe Asp Asp His Phe Gln His Leu Leu Asn Asp Ser Glu
180 185 190
Arg Thr Leu Gln Ala Thr Phe Pro Gly Ala Phe Gly Glu Leu Tyr Thr
195 200 205
Gln Asn Ala Arg Ala Phe Arg Asp Leu Tyr Ser Glu Leu Arg Leu Tyr

210	215	220
Tyr Arg Gly Ala Asn Leu His Leu Glu Glu	Thr Leu Ala Glu Phe Trp	
225	230	235
Ala Arg Leu Leu Glu Arg Leu Phe Lys Gln	Leu His Pro Gln Leu Leu	240
245	250	255
Leu Pro Asp Asp Tyr Leu Asp Cys Leu Gly Lys Gln Ala Glu Ala Leu		
260	265	270
Arg Pro Phe Gly Glu Ala Pro Arg Glu Leu Arg Leu Arg Ala Thr Arg		
275	280	285
Ala Phe Val Ala Ala Arg Ser Phe Val Gln Gly Leu Gly Val Ala Ser		
290	295	300
Asp Val Val Arg Lys Val Ala Gln Val Pro Leu Gly Pro Glu Cys Ser		
305	310	315
Arg Ala Val Ile Glu Ala Gly Ser Tyr Cys Ala Leu His Cys Val Gly		320
325	330	335
Val Pro Gly Ala Arg Pro Cys Pro Asp Tyr Cys Arg Asn Val Leu Lys		
340	345	350
Gly Cys Leu Ala Asn Gln Ala Asp Leu Asp Ala Glu Trp Arg Asn Leu		
355	360	365
Leu Asp Ser Met Val Leu Ile Thr Asp Lys Phe Trp Gly Thr Ser Gly		
370	375	380
Val Glu Ser Val Ile Gly Ser Val His Thr Trp Leu Ala Glu Ala Ile		
385	390	395
Asn Ala Leu Gln Asp Asn Arg Asp Thr Leu Thr Ala Lys Val Ile Gln		400
405	410	415
Gly Cys Gly Asn Pro Lys Val Asn Pro Gln Gly Pro Gly Pro Glu Glu		
420	425	430
Lys Arg Arg Arg Gly Lys Leu Ala Pro Arg Glu Arg Pro Pro Ser Gly		
435	440	445
Thr Leu Glu Lys Leu Val Ser Glu Ala Lys Ala Gln Leu Arg Asp Val		
450	455	460
Gln Asp Phe Trp Ile Ser Leu Pro Gly Thr Leu Cys Ser Glu Lys Met		
465	470	475
Ala Leu Ser Thr Ala Ser Asp Asp Arg Cys Trp Asn Gly Met Ala Arg		480
485	490	495
Gly Arg Tyr Leu Pro Glu Val Met Gly Asp Gly Leu Ala Asn Gln Ile		
500	505	510
Asn Asn Pro Glu Val Glu Val Asp Ile Thr Lys Pro Asp Met Thr Ile		
515	520	525
Arg Gln Gln Ile Met Gln Leu Lys Ile Met Thr Asn Arg Leu Arg Ser		
530	535	540
Ala Tyr Asn Gly Asn Asp Val Asp Phe Gln Asp Ala Ser Asp Asp Gly		
545	550	555
Ser Gly Ser Gly Ser Gly Asp Gly Cys Leu Asp Asp Leu Cys Gly Arg		560
565	570	575
Lys Val Ser Arg Lys Ser Ser Ser Arg Thr Pro Leu Thr His Ala		
580	585	590
Leu Pro Gly Leu Ser Glu Gln Glu Gly Gln Lys Thr Ser Ala Ala Ser		
595	600	605
Cys Pro Gln Pro Pro Thr Phe Leu Leu Pro Leu Leu Phe Leu Ala		
610	615	620
Leu Thr Val Ala Arg Pro Arg Trp Arg		
625	630	633

&lt;210&gt; 1280

&lt;211&gt; 133

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (133)

&lt;223&gt; X = any amino acid or stop code

<400> 1280  
 Ala Thr Glu Leu Thr Arg Ala Gly Met Glu Ala Ser Ala Leu Thr Lys  
   1               5                           10                       15  
 Ser Ala Val Thr Ser Val Ala Lys Val Val Arg Val Ala Ser Gly Ser  
   20               25                       30  
 Ala Val Val Leu Pro Leu Ala Arg Ile Ala Thr Ser Cys Asp Xaa Arg  
   35               40                       45  
 Val Gly Gly Pro Val Gln Ala Val Pro Met Val Leu Ser Ala Met Gly  
   50               55                       60  
 Leu Gln Leu Arg Ala Gly Ile Ala Ser Ser Ser Ile Ala Ala Lys Met  
   65               70                       75                       80  
 Met Ser Ala Ala Ala Ile Ala Asn Gly Gly Val Ser Pro Gly Gln  
   85               90                       95  
 Pro Leu Trp Leu Leu Leu Gln Ser Leu Gly Ala Thr Gly Leu Ser Gly  
   100              105                      110  
 Leu Thr Lys Phe Ile Leu Gly Ser Ile Gly Ser Ala Ile Ala Ala Val  
   115              120                      125  
 Ile Ala Arg Phe Tyr  
   130              133

<210> 1281  
<211> 457  
<212>Amino acid  
<213> Homo sapiens

<400> 1281  
 Thr Asn Gly Arg Asn Leu Leu His His Trp Ile Leu Gly Val Cys Gly  
   1               5                       10                       15  
 Met His Pro His His Gln Glu Thr Leu Lys Asn Arg Val Val Leu  
   20               25                       30  
 Ala Lys Gln Leu Leu Leu Ser Glu Leu Leu Glu His Leu Leu Glu Lys  
   35               40                       45  
 Asp Ile Ile Thr Leu Glu Met Arg Glu Leu Ile Gln Ala Lys Val Gly  
   50               55                       60                       80  
 Ser Phe Ser Gln Asn Val Glu Leu Leu Asn Leu Leu Pro Lys Arg Gly  
   65               70                       75                       80  
 Pro Gln Ala Phe Asp Ala Phe Cys Glu Ala Leu Arg Glu Thr Lys Gln  
   85               90                       95  
 Gly His Leu Glu Asp Met Leu Leu Thr Leu Ser Gly Leu Gln His  
   100              105                      110  
 Val Leu Pro Pro Leu Ser Cys Asp Tyr Asp Leu Ser Leu Pro Phe Pro  
   115              120                      125  
 Val Cys Glu Ser Cys Pro Leu Tyr Lys Lys Leu Arg Leu Ser Thr Asp  
   130              135                      140  
 Thr Val Glu His Ser Leu Asp Asn Lys Asp Gly Pro Val Cys Leu Gln  
   145              150                      155                      160  
 Val Lys Pro Cys Thr Pro Glu Phe Tyr Gln Thr His Phe Gln Leu Ala  
   165              170                      175  
 Tyr Arg Leu Gln Ser Arg Pro Arg Gly Leu Ala Leu Val Leu Ser Asn  
   180              185                      190  
 Val His Phe Thr Gly Glu Lys Glu Leu Glu Phe Arg Ser Gly Gly Asp  
   195              200                      205  
 Val Asp His Ser Thr Leu Val Thr Leu Phe Lys Leu Leu Gly Tyr Asp  
   210              215                      220

Val His Val Leu Cys Asp Gln Thr Ala Gln Glu Met Gln Glu Lys Ile  
 225 230 235 240  
 Gln Asn Phe Ala Gln Leu Pro Ala His Arg Val Thr Asp Ser Cys Ile  
 245 250 255  
 Val Ala Leu Leu Ser His Gly Val Glu Gly Ala Ile Tyr Gly Val Asp  
 260 265 270  
 Gly Lys Leu Leu Gln Leu Gln Glu Val Phe Gln Leu Phe Asp Asn Ala  
 275 280 285  
 Asn Cys Pro Ser Leu Gln Asn Lys Pro Lys Met Phe Phe Ile Gln Ala  
 290 295 300  
 Cys Arg Gly Gly Ala Ile Gly Ser Leu Gly His Leu Leu Leu Phe Thr  
 305 310 315 320  
 Ala Ala Thr Ala Ser Leu Ala Leu Glu Thr Asp Arg Gly Val Asp Gln  
 325 330 335  
 Gln Asp Gly Lys Asn His Ala Gly Ser Pro Gly Cys Glu Glu Ser Asp  
 340 345 350  
 Ala Gly Lys Glu Lys Leu Pro Lys Met Arg Leu Pro Thr Arg Ser Asp  
 355 360 365  
 Met Ile Cys Gly Tyr Ala Cys Leu Lys Gly Thr Ala Ala Met Arg Asn  
 370 375 380  
 Thr Lys Arg Gly Ser Trp Tyr Ile Glu Ala Leu Ala Gln Val Phe Ser  
 385 390 395 400  
 Glu Arg Ala Cys Asp Met His Val Ala Asp Met Leu Val Lys Val Asn  
 405 410 415  
 Ala Leu Ile Lys Asp Arg Glu Gly Tyr Ala Pro Gly Thr Glu Phe His  
 420 425 430  
 Arg Cys Lys Glu Met Ser Glu Tyr Cys Ser Thr Leu Cys Arg His Leu  
 435 440 445  
 Tyr Leu Phe Pro Gly His Pro Pro Thr  
 450 455 457

<210> 1282  
<211> 195  
<212> Amino acid  
<213> Homo sapiens

<400> 1282  
 Val Arg Gly Lys Glu Val Met Ala Ala Leu Cys Arg Thr Arg Ala Val  
 1 5 10 15  
 Ala Ala Glu Ser His Phe Leu Arg Val Phe Leu Phe Phe Arg Pro Phe  
 20 25 30  
 Arg Gly Val Gly Thr Glu Ser Gly Ser Glu Ser Gly Ser Ser Asn Ala  
 35 40 45  
 Lys Glu Pro Lys Thr Arg Ala Gly Gly Phe Ala Ser Ala Leu Glu Arg  
 50 55 60  
 His Ser Glu Leu Leu Gln Lys Val Glu Pro Leu Gln Lys Gly Ser Pro  
 65 70 75 80  
 Lys Asn Val Glu Ser Phe Ala Ser Met Leu Arg His Ser Pro Leu Thr  
 85 90 95  
 Gln Met Gly Pro Ala Lys Asp Lys Leu Val Ile Gly Arg Ile Phe His  
 100 105 110  
 Ile Val Glu Asn Asp Leu Tyr Ile Asp Phe Gly Gly Lys Phe His Cys  
 115 120 125  
 Val Cys Arg Arg Pro Glu Val Asp Gly Glu Lys Tyr Gln Lys Gly Thr  
 130 135 140  
 Arg Val Arg Leu Arg Leu Leu Asp Leu Glu Leu Thr Ser Arg Phe Leu  
 145 150 155 160  
 Gly Ala Thr Thr Asp Thr Thr Val Leu Glu Ala Asn Ala Val Leu Leu  
 165 170 175

Gly Ile Gln Glu Ser Lys Asp Ser Arg Ser Lys Glu Glu His Leu Glu  
 180 185 190  
 Lys Tyr Ile  
 195

<210> 1283  
 <211> 1499  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1283  
 Ile Pro Gly Ala Ser Pro Ala Pro Arg Arg Ala Ala Pro Leu Arg Leu  
 1 5 10 15  
 Gly Leu Arg Leu Ala Ser Gly Trp Ala Arg Ala Pro Gly Gly Val Ser  
 20 25 30  
 Pro Val Pro Gly Pro Gly Met Gly Gly Asp Ala Pro Thr Met Ala Arg  
 35 40 45  
 Ala Gln Ala Leu Val Leu Glu Leu Thr Phe Gln Leu Cys Ala Pro Glu  
 50 55 60  
 Thr Glu Thr Pro Glu Val Gly Cys Thr Phe Glu Glu Gly Ser Asp Pro  
 65 70 75 80  
 Ala Val Pro Cys Glu Tyr Ser Gln Ala Gln Tyr Asp Asp Phe Gln Trp  
 85 90 95  
 Glu Gln Val Arg Ile His Pro Gly Thr Arg Ala Pro Ala Asp Leu Pro  
 100 105 110  
 His Gly Ser Tyr Leu Met Val Asn Thr Ser Gln His Ala Pro Gly Gln  
 115 120 125  
 Arg Ala His Val Ile Phe Gln Ser Leu Ser Glu Asn Asp Thr His Cys  
 130 135 140  
 Val Gln Phe Ser Tyr Phe Leu Tyr Ser Arg Asp Gly His Ser Pro Gly  
 145 150 155 160  
 Thr Leu Gly Val Tyr Val Arg Val Asn Gly Gly Pro Leu Gly Ser Ala  
 165 170 175  
 Val Trp Asn Met Thr Gly Ser His Gly Arg Gln Trp His Gln Ala Glu  
 180 185 190  
 Leu Ala Val Ser Thr Phe Trp Pro Asn Glu Tyr Gln Val Leu Phe Glu  
 195 200 205  
 Ala Leu Ile Ser Pro Asp Arg Arg Gly Tyr Met Gly Leu Asp Asp Ile  
 210 215 220  
 Leu Leu Leu Ser Tyr Pro Cys Ala Lys Ala Pro His Phe Ser Arg Leu  
 225 230 235 240  
 Gly Asp Val Glu Val Asn Ala Gly Gln Asn Ala Ser Phe Gln Cys Met  
 245 250 255  
 Ala Ala Gly Arg Ala Ala Glu Ala Glu Arg Phe Leu Leu Gln Arg Gln  
 260 265 270  
 Ser Gly Ala Leu Val Pro Ala Ala Gly Val Arg His Ile Ser His Arg  
 275 280 285  
 Arg Phe Leu Ala Thr Phe Pro Leu Ala Ala Val Ser Arg Ala Glu Gln  
 290 295 300  
 Asp Leu Tyr Arg Cys Val Ser Gln Ala Pro Arg Gly Arg Gly Thr Ser  
 305 310 315 320  
 Leu Asn Phe Ala Glu Phe Met Val Lys Glu Pro Pro Thr Pro Ile Ala  
 325 330 335  
 Pro Pro Gln Leu Leu Arg Ala Gly Pro Thr Tyr Leu Ile Ile Gln Leu  
 340 345 350  
 Asn Thr Asn Ser Ile Ile Gly Asp Gly Pro Ile Val Arg Lys Glu Ile  
 355 360 365  
 Glu Tyr Arg Met Ala Arg Gly Pro Trp Ala Glu Val His Ala Val Ser  
 370 375 380

Leu Gln Thr Tyr Lys Leu Trp His Leu Asp Pro Asp Thr Glu Tyr Glu  
 385 390 395 400  
 Ile Ser Val Leu Leu Thr Arg Pro Gly Asp Gly Gly Thr Gly Arg Pro  
 405 410 415  
 Gly Pro Pro Leu Ile Ser Arg Thr Lys Cys Ala Glu Pro Met Arg Ala  
 420 425 430  
 Pro Lys Gly Leu Ala Phe Ala Glu Ile Gln Ala Arg Gln Leu Thr Leu  
 435 440 445  
 Gln Trp Glu Pro Leu Gly Tyr Asn Val Thr Arg Cys His Thr Tyr Thr  
 450 455 460  
 Val Ser Leu Cys Tyr His Tyr Thr Leu Gly Ser Ser His Asn Gln Thr  
 465 470 475 480  
 Ile Arg Glu Cys Val Lys Thr Glu Gln Gly Val Ser Arg Tyr Thr Met  
 485 490 495  
 Lys Asn Leu Leu Pro Tyr Arg Asn Val His Val Arg Leu Val Leu Thr  
 500 505 510  
 Asn Pro Glu Gly Arg Lys Glu Gly Lys Glu Val Thr Phe Gln Thr Asp  
 515 520 525  
 Glu Asp Val Pro Ser Gly Ile Ala Ala Glu Ser Leu Thr Phe Thr Pro  
 530 535 540  
 Leu Glu Asp Met Ile Phe Leu Lys Trp Glu Glu Pro Gln Glu Pro Asn  
 545 550 555 560  
 Gly Leu Ile Thr Gln Tyr Glu Ile Ser Tyr Gln Ser Ile Glu Ser Ser  
 565 570 575  
 Asp Pro Ala Val Asn Val Pro Gly Pro Arg Arg Thr Ile Ser Lys Leu  
 580 585 590  
 Arg Asn Glu Thr Tyr His Val Phe Ser Asn Leu His Pro Gly Thr Thr  
 595 600 605  
 Tyr Leu Phe Ser Val Arg Ala Arg Thr Gly Lys Gly Phe Gly Gln Ala  
 610 615 620  
 Ala Leu Thr Glu Ile Thr Thr Asn Ile Ser Ala Pro Ser Phe Asp Tyr  
 625 630 635 640  
 Ala Asp Met Pro Ser Pro Leu Gly Glu Ser Glu Asn Thr Ile Thr Val  
 645 650 655  
 Leu Leu Arg Pro Ala Gln Gly Arg Gly Ala Pro Ile Ser Val Tyr Gln  
 660 665 670  
 Val Ile Val Glu Glu Glu Gln Gly Ser Arg Arg Leu Arg Arg Glu Pro  
 675 680 685  
 Gly Gly Gln Asp Cys Phe Pro Val Pro Leu Thr Phe Glu Ala Ala Leu  
 690 695 700  
 Ala Arg Gly Leu Val Asp Tyr Phe Gly Ala Glu Leu Ala Ala Ser Ser  
 705 710 715 720  
 Leu Pro Glu Ala Met Pro Phe Thr Val Gly Asp Asn Lys Thr Tyr Arg  
 725 730 735  
 Gly Phe Trp Asn Pro Pro Leu Glu Pro Arg Lys Ala Tyr Leu Ile Tyr  
 740 745 750  
 Phe Gln Ala Ala Ser His Leu Lys Gly Glu Thr Arg Leu Asn Cys Ile  
 755 760 765  
 Arg Ile Ala Arg Lys Ala Ala Cys Lys Glu Ser Lys Arg Pro Leu Glu  
 770 775 780  
 Val Ser Gln Arg Ser Glu Glu Met Gly Leu Ile Leu Gly Ile Cys Ala  
 785 790 795 800  
 Gly Gly Leu Ala Val Leu Ile Leu Leu Gln Ala Ile Ile Val Ile  
 805 810 815  
 Ile Arg Lys Gly Arg Asp His Tyr Ala Tyr Ser Tyr Tyr Pro Lys Pro  
 820 825 830  
 Val Asn Met Thr Lys Ala Thr Val Asn Tyr Arg Gln Glu Lys Thr His  
 835 840 845  
 Met Met Ser Ala Val Asp Arg Ser Phe Thr Asp Gln Ser Thr Leu Gln  
 850 855 860  
 Glu Asp Glu Arg Leu Gly Leu Ser Ser Phe Met Asp Thr His Gly Tyr Ser  
 865 870 875 880  
 Thr Arg Gly Asp Gln Arg Ser Gly Gly Val Thr Glu Ala Ser Ser Leu  
 885 890 895

Leu Gly Gly Ser Pro Arg Arg Pro Cys Gly Arg Lys Gly Ser Pro Tyr  
 900 . . . . . 905 . . . . . 910  
 His Thr Gly Gln Leu His Pro Ala Val Arg Val Ala Asp Leu Leu Gln  
 915 . . . . . 920 . . . . . 925  
 His Ile Asn Gln Met Lys Thr Ala Glu Gly Tyr Gly Phe Lys Gln Glu  
 930 . . . . . 935 . . . . . 940  
 Tyr Glu Ser Phe Phe Glu Gly Trp Asp Ala Thr Lys Lys Lys Asp Lys  
 945 . . . . . 950 . . . . . 955 . . . . . 960  
 Val Lys Gly Ser Arg Gln Glu Pro Met Pro Ala Tyr Asp Arg His Arg  
 965 . . . . . 970 . . . . . 975  
 Val Lys Leu His Pro Met Leu Gly Asp Pro Asn Ala Asp Tyr Ile Asn  
 980 . . . . . 985 . . . . . 990  
 Ala Asn Tyr Ile Asp Ile Arg Ile Asn Arg Glu Gly Tyr His Arg Ser  
 995 . . . . . 1000 . . . . . 1005  
 Asn His Phe Ile Ala Thr Gln Gly Pro Lys Pro Glu Met Val Tyr Asp  
 1010 . . . . . 1015 . . . . . 1020  
 Phe Trp Arg Met Val Trp Gln Glu His Cys Ser Ser Ile Val Met Ile  
 1025 . . . . . 1030 . . . . . 1035 . . . . . 1040  
 Thr Lys Leu Val Glu Val Gly Arg Val Lys Cys Ser Arg Tyr Trp Pro  
 1045 . . . . . 1050 . . . . . 1055  
 Glu Asp Ser Asp Thr Tyr Gly Asp Ile Lys Ile Met Leu Val Lys Thr  
 1060 . . . . . 1065 . . . . . 1070  
 Glu Thr Leu Ala Glu Tyr Val Val Arg Thr Phe Ala Leu Glu Arg Arg  
 1075 . . . . . 1080 . . . . . 1085  
 Gly Tyr Ser Ala Arg His Glu Val Arg Gln Phe His Phe Thr Ala Trp  
 1090 . . . . . 1095 . . . . . 1100  
 Pro Glu His Gly Val Pro Tyr His Ala Thr Gly Leu Leu Ala Phe Ile  
 1105 . . . . . 1110 . . . . . 1115 . . . . . 1120  
 Arg Arg Val Lys Ala Ser Thr Pro Pro Asp Ala Gly Pro Ile Val Ile  
 1125 . . . . . 1130 . . . . . 1135  
 His Cys Ser Ala Gly Thr Gly Arg Thr Gly Cys Tyr Ile Val Leu Asp  
 1140 . . . . . 1145 . . . . . 1150  
 Val Met Leu Asp Met Ala Glu Cys Glu Gly Val Val Asp Ile Tyr Asn  
 1155 . . . . . 1160 . . . . . 1165  
 Cys Val Lys Thr Leu Cys Ser Arg Arg Val Asn Met Ile Gln Thr Glu  
 1170 . . . . . 1175 . . . . . 1180  
 Glu Gln Tyr Ile Phe Ile His Asp Ala Ile Leu Glu Ala Cys Leu Cys  
 1185 . . . . . 1190 . . . . . 1195 . . . . . 1200  
 Gly Glu Thr Thr Ile Pro Val Ser Glu Phe Lys Ala Thr Tyr Lys Glu  
 1205 . . . . . 1210 . . . . . 1215  
 Met Ile Arg Ile Asp Pro Gln Ser Asn Ser Ser Gln Leu Arg Glu Glu  
 1220 . . . . . 1225 . . . . . 1230  
 Phe Gln Thr Leu Asn Ser Val Thr Pro Pro Leu Asp Val Glu Gln Cys  
 1235 . . . . . 1240 . . . . . 1245  
 Ser Ile Ala Leu Leu Pro Arg Asn Arg Asp Lys Asn Arg Ser Met Asp  
 1250 . . . . . 1255 . . . . . 1260  
 Val Leu Pro Pro Asp Arg Cys Leu Pro Phe Leu Ile Ser Thr Asp Gly  
 1265 . . . . . 1270 . . . . . 1275 . . . . . 1280  
 Asp Ser Asn Asn Tyr Ile Asn Ala Ala Leu Thr Asp Ser Tyr Thr Arg  
 1285 . . . . . 1290 . . . . . 1295  
 Ser Ala Ala Phe Ile Val Thr Leu His Pro Leu Gln Ser Thr Thr Pro  
 1300 . . . . . 1305 . . . . . 1310  
 Asp Phe Trp Gly Leu Val Tyr Asp Tyr Gly Cys Thr Ser Ile Val Met  
 1315 . . . . . 1320 . . . . . 1325  
 Leu Asn Gln Leu Asn Gln Ser Asn Ser Ala Trp Pro Cys Leu Gln Tyr  
 1330 . . . . . 1335 . . . . . 1340  
 Trp Pro Glu Pro Gly Arg Gln Gln Tyr Gly Leu Met Glu Val Glu Phe  
 1345 . . . . . 1350 . . . . . 1355 . . . . . 1360  
 Met Ser Gly Thr Ala Asp Glu Asp Leu Val Ala Arg Val Phe Arg Val  
 1365 . . . . . 1370 . . . . . 1375  
 Gln Asn Ile Ser Arg Leu Gln Glu Gly His Leu Leu Val Arg His Phe  
 1380 . . . . . 1385 . . . . . 1390  
 Gln Phe Leu Arg Trp Ser Ala Tyr Arg Asp Thr Pro Asp Ser Lys Lys  
 1395 . . . . . 1400 . . . . . 1405

Ala Phe Leu His Leu Leu Ala Glu Gly Asp Lys Trp Gln Ala Glu Ser  
 1410 1415 1420  
 Gly Asp Gly Arg Thr Ile Val His Cys Leu Asn Gly Gly Gly Arg Ser  
 1425 1430 1435 1440  
 Gly Thr Phe Cys Ala Cys Ala Thr Val Leu Glu Met Ile Arg Cys His  
 1445 1450 1455  
 Asn Leu Val Asp Val Phe Phe Ala Ala Lys Thr Leu Arg Asn Tyr Lys  
 1460 1465 1470  
 Pro Asn Met Val Glu Thr Met Asp Gln Tyr His Phe Cys Tyr Asp Val  
 1475 1480 1485  
 Ala Leu Glu Tyr Leu Glu Gly Leu Glu Ser Arg  
 1490 1495 1499

<210> 1284  
 <211> 430  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1284  
 Thr Lys Pro Arg Lys Arg Arg His Gln Pro Ala Ser Gln Arg Gln Arg  
 1 5 10 15  
 Pro Trp Ser Ser Asp Ser Thr Gly Asp Leu Leu Ala Arg Gly Lys Gly  
 20 25 30  
 Arg Lys Glu Glu Asn Lys Gly Ser Asp Arg Val Ser Leu Ala Pro Pro  
 35 40 45  
 Ser Leu Arg Arg Pro Met Met Cys Gln Ser Glu Ala Arg Gln Gly Pro  
 50 55 60  
 Glu Leu Arg Ala Ala Lys Trp Leu His Phe Pro Gln Leu Ala Leu Arg  
 65 70 75 80  
 Arg Arg Leu Gly Gln Leu Ser Cys Met Ser Arg Pro Ala Leu Lys Leu  
 85 90 95  
 Arg Ser Trp Pro Leu Thr Val Leu Tyr Tyr Leu Leu Pro Phe Gly Ala  
 100 105 110  
 Leu Arg Pro Leu Ser Arg Val Gly Trp Arg Pro Val Ser Arg Val Ala  
 115 120 125  
 Leu Tyr Lys Ser Val Pro Thr Arg Leu Leu Ser Arg Ala Trp Gly Arg  
 130 135 140  
 Leu Asn Gln Val Glu Leu Pro His Trp Leu Arg Arg Pro Val Tyr Ser  
 145 150 155 160  
 Leu Tyr Ile Trp Thr Phe Gly Val Asn Met Lys Glu Ala Ala Val Glu  
 165 170 175  
 Asp Leu His His Tyr Arg Asn Leu Ser Glu Phe Phe Arg Arg Lys Leu  
 180 185 190  
 Lys Pro Gln Ala Arg Pro Val Cys Gly Leu His Ser Val Ile Ser Pro  
 195 200 205  
 Ser Asp Gly Arg Ile Leu Asn Phe Gly Gln Val Lys Asn Cys Glu Val  
 210 215 220  
 Glu Gln Val Lys Gly Val Thr Tyr Ser Leu Glu Ser Phe Leu Gly Pro  
 225 230 235 240  
 Arg Met Cys Thr Glu Asp Leu Pro Phe Pro Pro Ala Ala Ser Cys Asp  
 245 250 255  
 Ser Phe Lys Asn Gln Leu Val Thr Arg Glu Gly Asn Glu Leu Tyr His  
 260 265 270  
 Cys Val Ile Tyr Leu Ala Pro Gly Asp Tyr His Cys Phe His Ser Pro  
 275 280 285  
 Thr Asp Trp Thr Val Ser His Arg Arg His Phe Pro Gly Ser Leu Met  
 290 295 300  
 Ser Val Asn Pro Gly Met Ala Arg Trp Ile Lys Glu Leu Phe Cys His  
 305 310 315 320

Asn Glu Arg Val Val Leu Thr Gly Asp Trp Lys His Gly Phe Phe Ser  
 325 330 335  
 Leu Thr Ala Val Gly Ala Thr Asn Trp Gly Ser Ile Arg Ile Tyr Phe  
 340 345 350  
 Asp Arg Asp Leu His Thr Asn Ser Pro Arg His Ser Lys Gly Ser Tyr  
 355 360 365  
 Asn Asp Phe Ser Phe Val Thr His Thr Asn Arg Glu Gly Val Pro Met  
 370 375 380  
 Ala Leu Arg Gly Glu His Leu Gly Gln Ser Phe Asn Leu Gly Ser Thr  
 385 390 395 400  
 Ile Val Leu Ile Phe Glu Ala Pro Lys Asp Phe Asn Phe Gln Leu Lys  
 405 410 415  
 Thr Gly Gln Lys Ile Arg Phe Gly Glu Ala Leu Gly Ser Leu  
 420 425 430

<210> 1285  
 <211> 957  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1285  
 Ala Glu Leu Gly Leu Phe Gly Ser Leu Arg Phe Ser Ser Leu Leu His  
 1 5 10 15  
 Phe Pro Pro Arg Pro Arg Ser Pro Ala Ser Ala Cys Gly Pro Gly Glu  
 20 25 30  
 Gly Arg Met Glu Arg Gly Leu Pro Leu Leu Cys Ala Val Leu Ala Leu  
 35 40 45  
 Val Leu Ala Pro Ala Gly Ala Phe Arg Asn Asp Lys Cys Gly Asp Thr  
 50 55 60  
 Ile Lys Ile Glu Ser Pro Gly Tyr Leu Thr Ser Pro Gly Tyr Pro His  
 65 70 75 80  
 Ser Tyr His Pro Ser Glu Lys Cys Glu Trp Leu Ile Gln Ala Pro Asp  
 85 90 95  
 Pro Tyr Gln Arg Ile Met Ile Asn Phe Asn Pro His Phe Asp Leu Glu  
 100 105 110  
 Asp Arg Asp Cys Lys Tyr Asp Tyr Val Glu Val Phe Asp Gly Glu Asn  
 115 120 125  
 Glu Asn Gly His Phe Arg Gly Lys Phe Cys Gly Lys Ile Ala Pro Pro  
 130 135 140  
 Pro Val Val Ser Ser Gly Pro Phe Leu Phe Ile Lys Phe Val Ser Asp  
 145 150 155 160  
 Tyr Glu Thr His Gly Ala Gly Phe Ser Ile Arg Tyr Glu Ile Phe Lys  
 165 170 175  
 Arg Gly Pro Glu Cys Ser Gln Asn Tyr Thr Thr Pro Ser Gly Val Ile  
 180 185 190  
 Lys Ser Pro Gly Phe Pro Glu Lys Tyr Pro Asn Ser Leu Glu Cys Thr  
 195 200 205  
 Tyr Ile Val Phe Ala Pro Lys Met Ser Glu Ile Ile Leu Asp Phe Glu  
 210 215 220  
 Ser Phe Asp Leu Glu Pro Asp Ser Asn Pro Pro Gly Gly Met Phe Cys  
 225 230 235 240  
 Arg Tyr Asp Arg Leu Glu Ile Trp Asp Gly Phe Pro Asp Val Gly Pro  
 245 250 255  
 His Ile Gly Arg Tyr Cys Gly Gln Lys Thr Pro Gly Arg Ile Arg Ser  
 260 265 270  
 Ser Ser Gly Ile Leu Ser Met Val Phe Tyr Thr Asp Ser Ala Ile Ala  
 275 280 285  
 Lys Glu Gly Phe Ser Ala Asn Tyr Ser Val Leu Gln Ser Ser Val Ser  
 290 295 300

Glu Asp Phe Lys Cys Met Glu Ala Leu Gly Met Glu Ser Gly Glu Ile  
 305 310 315 320  
 His Ser Asp Gln Ile Thr Ala Ser Ser Gln Tyr Ser Thr Asn Trp Ser  
 325 330 335 340  
 Ala Glu Arg Ser Arg Leu Asn Tyr Pro Glu Asn Gly Trp Thr Pro Gly  
 340 345 350 355  
 Glu Asp Ser Tyr Arg Glu Trp Ile Gln Val Asp Leu Gly Leu Leu Arg  
 355 360 365 370  
 Phe Val Thr Ala Val Gly Thr Gln Gly Ala Ile Ser Lys Glu Thr Lys  
 370 375 380 385  
 Lys Lys Tyr Tyr Val Lys Thr Tyr Lys Ile Asp Val Ser Ser Asn Gly  
 390 395 400 405  
 Glu Asp Trp Ile Thr Ile Lys Glu Gly Asn Lys Pro Val Leu Phe Gln  
 405 410 415 420  
 Gly Asn Thr Asn Pro Thr Asp Val Val Ala Val Phe Pro Lys Pro  
 420 425 430 435  
 Leu Ile Thr Arg Phe Val Arg Ile Lys Pro Ala Thr Trp Glu Thr Gly  
 435 440 445 450  
 Ile Ser Met Arg Phe Glu Val Tyr Gly Cys Lys Ile Thr Asp Tyr Pro  
 450 455 460 465  
 Cys Ser Gly Met Leu Gly Met Val Ser Gly Leu Ile Ser Asp Ser Gln  
 470 475 480 485  
 Ile Thr Ser Ser Asn Gln Gly Asp Arg Asn Trp Met Pro Glu Asn Ile  
 485 490 495 500  
 Arg Leu Val Thr Ser Arg Ser Gly Trp Ala Leu Pro Pro Ala Pro His  
 500 505 510 515  
 Ser Tyr Ile Asn Glu Trp Leu Gln Ile Asp Leu Gly Glu Glu Lys Ile  
 520 525 530 535  
 Val Arg Gly Ile Ile Ile Gln Gly Gly Lys His Arg Glu Asn Lys Val  
 535 540 550 555  
 Phe Met Arg Lys Phe Lys Ile Gly Tyr Ser Asn Asn Gly Ser Asp Trp  
 555 560 565 570  
 Lys Met Ile Met Asp Asp Ser Lys Arg Lys Ala Lys Ser Phe Glu Gly  
 575 580 585 590  
 Asn Asn Asn Tyr Asp Thr Pro Glu Leu Arg Thr Phe Pro Ala Leu Ser  
 595 600 605 610  
 Thr Arg Phe Ile Arg Ile Tyr Pro Glu Arg Ala Thr His Gly Gly Leu  
 615 620 625 630  
 Gly Leu Arg Met Glu Leu Leu Gly Cys Glu Val Glu Ala Pro Thr Ala  
 630 635 640 645  
 Gly Pro Thr Thr Pro Asn Gly Asn Leu Val Asp Glu Cys Asp Asp Asp  
 650 655 660 665  
 Gln Ala Asn Cys His Ser Gly Thr Gly Asp Arg Phe Gln Leu Thr Gly  
 670 675 680 685  
 Gly Thr Thr Val Leu Ala Thr Glu Lys Pro Thr Val Ile Asp Ser Thr  
 690 695 700 705  
 Ile Gln Ser Glu Phe Pro Thr Tyr Gly Phe Asn Cys Glu Phe Gly Trp  
 710 715 720 725  
 Gly Ser His Lys Thr Phe Cys His Trp Glu His Asp Asn His Val Gln  
 730 735 740 745  
 Leu Lys Trp Ser Val Leu Thr Ser Lys Thr Gly Pro Ile Gln Asp His  
 755 760 765 770  
 Thr Gly Asp Gly Asn Phe Ile Tyr Ser Gln Ala Asp Glu Asn Gln Lys  
 775 780 785 790  
 Gly Lys Val Ala Arg Leu Val Ser Pro Val Val Tyr Ser Gln Asn Ser  
 795 800 805 810

Gly Glu Ile Gly Lys Gly Asn Leu Gly Gly Ile Ala Val Asp Asp Ile  
           820                       825                       830  
 Ser Ile Asn Asn His Ile Ser Gln Glu Asp Cys Ala Lys Pro Ala Asp  
           835                       840                       845  
 Leu Asp Lys Lys Asn Pro Glu Ile Lys Ile Asp Glu Thr Gly Ser Thr  
           850                       855                       860  
 Pro Gly Tyr Glu Gly Glu Gly Asp Lys Asn Ile Ser Arg Lys  
           865                       870                       875                       880  
 Pro Gly Asn Val Leu Lys Thr Leu Glu Pro Ile Leu Ile Thr Ile Ile  
           885                       890                       895  
 Ala Met Ser Ala Leu Gly Val Leu Leu Gly Ala Val Cys Gly Val Val  
           900                       905                       910  
 Leu Tyr Cys Ala Cys Trp His Asn Gly Met Ser Glu Arg Asn Leu Ser  
           915                       920                       925  
 Ala Leu Glu Asn Tyr Asn Phe Glu Leu Val Asp Gly Val Lys Leu Lys  
           930                       935                       940  
 Lys Asp Lys Leu Asn Thr Gln Ser Thr Tyr Ser Glu Ala  
           945                       950                       955                       957

<210> 1286  
<211> 173  
<212>Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> (1)...(173)  
<223> X = any amino acid or stop code

<400> 1286  
 His Glu Gly Ser Ala Leu Thr Trp Ala Ser His Tyr Gln Glu Arg Leu  
   1                       5                               10                       15  
 Asn Ser Glu Gln Ser Cys Leu Asn Glu Trp Thr Ala Met Ala Asp Leu  
   20                       25                               30  
 Glu Ser Leu Arg Pro Pro Ser Ala Glu Pro Gly Gly Ser Val Cys Gly  
   35                       40                               45  
 Gly Glu Gly Leu Gly Gly Glu Gly Arg Ile Met Gln Trp Gly Ala  
   50                       55                               60  
 Trp Trp Arg Gly Glu Arg Ala Pro Xaa Leu Arg Gly Ser Ala Pro Arg  
   65                       70                               75                       80  
 Ser Ser Glu Gln Glu Gln Met Glu Gln Ala Ile Arg Ala Glu Leu Trp  
   85                       90                               95  
 Lys Val Leu Asp Val Ser Asp Leu Glu Ser Val Thr Ser Lys Glu Ile  
   100                      105                               110  
 Arg Gln Ala Leu Glu Leu Arg Leu Gly Leu Pro Leu Gln Pro Val Pro  
   115                      120                               125  
 Xaa Leu His Arg Gln Pro Asp Ala Ala Ala Gly Gly Thr Ala Gly Pro  
   130                      135                               140  
 Ser Leu Pro His Leu Pro Pro Pro Leu Pro Gly Leu Arg Val Glu Arg  
   145                      150                               155                       160  
 Ser Lys Pro Gly Gly Ala Ala Glu Glu Gln Val Gly Leu  
   165                      170                               173

<210> 1287  
<211> 181  
<212>Amino acid  
<213> Homo sapiens

<400> 1287

Met	Ala	Ala	Leu	Asp	Leu	Arg	Ala	Glu	Leu	Asp	Ser	Leu	Val	Leu	Gln	
1					5				10					15		
Leu	Leu	Gly	Asp	Leu	Glu	Glu	Leu	Glu	Gly	Lys	Arg	Thr	Val	Leu	Asn	
						20			25					30		
Ala	Arg	Val	Glu	Glu	Gly	Trp	Leu	Ser	Leu	Ala	Lys	Ala	Arg	Tyr	Ala	
						35			40				45			
Met	Gly	Ala	Lys	Ser	Val	Gly	Pro	Leu	Gln	Tyr	Ala	Ser	His	Met	Glu	
					50				55			60				
Pro	Gln	Val	Cys	Ieu	His	Ala	Ser	Glu	Ala	Gln	Glu	Gly	Leu	Gln	Lys	
						65			70			75			80	
Phe	Lys	Val	Val	Arg	Ala	Gly	Val	His	Ala	Pro	Glu	Glu	Val	Gly	Pro	
						85			90			95				
Arg	Glu	Ala	Gly	Leu	Arg	Arg	Arg	Lys	Gly	Pro	Thr	Lys	Thr	Pro	Glu	
					100				105			110				
Pro	Glu	Ser	Ser	Glu	Ala	Pro	Gln	Asp	Pro	Leu	Asn	Trp	Phe	Gly	Ile	
					115				120			125				
Leu	Val	Pro	His	Ser	Leu	Arg	Gln	Ala	Gln	Ala	Ser	Phe	Arg	Asp	Gly	
					130				135			140				
Leu	Gln	Leu	Ala	Ala	Asp	Ile	Ala	Ser	Leu	Gln	Asn	Arg	Ile	Asp	Trp	
					145				150			155			160	
Gly	Arg	Arg	Ser	Gln	Leu	Arg	Gly	Leu	Gln	Glu	Lys	Leu	Lys	Gln	Leu	Glu
						165				170			175			
Pro	Gly	Ala	Ala	*												
					180											

<210> 1288  
<211> 216  
<212>Amino acid  
<213> Homo sapiens

<400> 1288

His	Ser	Asp	Val	Gly	Ala	Ala	Thr	Ala	Val	Leu	Pro	Leu	Leu	Thr	Ala
1					5				10					15	
Val	Leu	Gly	Val	Thr	Val	Val	Thr	Arg	Arg	Asp	Thr	Glu	Gly	Pro	Gly
						20			25			30			
Arg	Ala	Ala	Leu	Val	His	Leu	Thr	Gly	Ser	Pro	Arg	Gln	Lys	Val	Gly
					35			40				45			
Thr	Ser	Gly	Arg	Glu	Gly	Leu	Pro	Gly	Leu	Gly	Ala	Ser	Cys	Ala	Glu
					50			55			60				
Ser	Glu	Leu	Glu	Arg	Glu	Thr	Gln	Glu	Pro	Arg	Ser	Arg	Gly	Arg	Cys
					65			70			75			80	
Ile	Phe	Gly	Ala	Ala	Arg	Trp	Arg	Gln	Val	Pro	Leu	Ala	Ser	Pro	Gln
						85			90			95			
Arg	Pro	Phe	Leu	Leu	Ser	Pro	Gly	Pro	Arg	Leu	His	Arg	Met	Gly	Leu
						100			105			110			
Pro	Val	Ser	Trp	Ala	Pro	Pro	Ala	Leu	Trp	Val	Leu	Gly	Cys	Cys	Ala
						115			120			125			
Leu	Leu	Leu	Ser	Leu	Trp	Ala	Leu	Cys	Thr	Ala	Cys	Arg	Arg	Pro	Glu
						130			135			140			
Asp	Ala	Val	Ala	Pro	Arg	Lys	Arg	Ala	Arg	Arg	Gln	Arg	Ala	Arg	Leu
						145			150			155			160
Gln	Gly	Ser	Ala	Thr	Ala	Ala	Glu	Ala	Val	Ser	Ala	Lys	Leu	Ser	Arg
							165			170			175		
Gly	Pro	Gly	Trp	Gly	Pro	Gln	Gly	Thr	Asp	Gln	Pro	Ser	Ser	Pro	Pro

Val Pro Thr Glu Ala Asp Pro Pro	180	185	190
Leu Leu Pro Gln Gln Val Gly His	195	200	205
Gln Thr Ala Arg Ala Ala Pro Gly	210	215	216

<210> 1289  
<211> 148  
<212> Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(148)  
<223> X = any amino acid or stop code

Leu Thr Gly Pro Gly Gln Arg Leu Ala Gly Thr Thr Glu Gly Pro Arg	<400>	1289	
1	5	10	15
Arg Cys Arg Gly Ser Ser Gln Ala Pro Thr Pro Thr Trp Lys Leu Val			
20	25	30	
Asp Thr Arg Leu Cys Ala Ala Ala Pro Trp Leu Ala Ser Arg Ala Pro			
35	40	45	
Gly His Tyr Ser Gln Met Leu Leu Val Asn Xaa Pro Cys Arg Lys Asp			
50	55	60	
Trp Leu Val Ser Lys Trp Met Arg Thr Pro Val Cys Gly Gln Ser Pro			
65	70	75	80
Ala Met Thr Asp Arg Pro Arg Ser Glu Ala Gly Arg Asp His Arg Arg			
85	90	95	
Ala Lys Ala Leu Pro Gly Leu Ile Pro Gly Ser Asn Pro Asn Leu Glu			
100	105	110	
Ala Cys Gly His Gln Ala Leu Cys Ser Ser Val Ala Ser Val Gln			
115	120	125	
Gly Pro Trp Pro Leu Leu Pro Asn Ala Ser Ser Pro Pro Thr Pro Gly			
130	135	140	
Gln Pro Gln Pro			
145	148		

<210> 1290  
<211> 170  
<212> Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(170)  
<223> X = any amino acid or stop code

Lys His Arg Leu Cys Ser Leu Glu Gln Leu Met Thr Leu Ile Ser Ala	<400>	1290	
1	5	10	15
Ala Arg Glu Tyr Glu Ile Glu Phe Ile Tyr Ala Ile Ser Pro Gly Leu			
20	25	30	
Asp Ile Thr Phe Ser Asn Pro Lys Glu Val Ser Thr Leu Lys Arg Lys			

35	40	45
Leu Asp Gln Val Ser Gln Phe Gly Cys Arg Ser Phe Ala Leu Leu Phe		
50	55	60
Asp Asp Ile Asp His Asn Met Cys Ala Ala Asp Lys Glu Val Phe Ser		
65	70	75
Ser Phe Ala His Ala Gln Val Ser Ile Thr Asn Glu Ile Tyr Gln Tyr		80
85	90	95
Leu Gly Glu Pro Glu Thr Phe Leu Phe Cys Pro Thr Glu Tyr Cys Ile		
100	105	110
Xaa Trp Leu Tyr Ile Xaa Leu Val Phe Leu Glu Tyr Ile Thr Tyr Lys		
115	120	125
Gly Pro Trp Ala Pro Phe Ser Leu His Phe Pro Pro Pro Leu Val Cys		
130	135	140
Lys Ser Arg Asn Leu Phe Leu Glu Asp Ile Phe Gln Asp Pro Lys Leu		
145	150	155
Glu Lys Phe Xaa Glu Leu Ile Asn Asp Asn		160
165	170	

<210> 1291  
<211> 98  
<212>Amino acid  
<213> Homo sapiens

<400> 1291			
Thr Ser Ala Leu Thr Gln Gly Leu Glu Arg Ile Pro Asp Gln Leu Gly			
1	5	10	15
Tyr Leu Val Leu Ser Glu Gly Ala Val Leu Ala Ser Ser Gly Asp Leu			
20	25	30	
Glu Asn Asp Glu Gln Ala Ala Ser Ala Ile Ser Glu Leu Val Ser Thr			
35	40	45	
Ala Cys Gly Phe Arg Leu His Arg Gly Met Asn Val Pro Phe Lys Arg			
50	55	60	
Leu Ser Val Val Phe Gly Glu His Thr Leu Leu Val Thr Val Ser Gly			
65	70	75	80
Gln Arg Val Phe Val Val Lys Arg Gln Asn Arg Gly Arg Glu Pro Ile			
85	90	95	
Asp Val			
98			

<210> 1292  
<211> 142  
<212>Amino acid  
<213> Homo sapiens

<400> 1292			
Ala Lys Arg Ala Glu Arg Thr Ser Arg Leu Gln Gly Leu Gln His Pro			
1	5	10	15
Ser Pro Pro Tyr Pro Pro Ala Thr Leu Gly Val Thr Pro Gly Gln Asp			
20	25	30	
Arg Thr Leu Gln Leu Gln His Gln Cys Pro Ala Gly Arg Lys Ser Arg			
35	40	45	
Lys Lys Lys Ser Lys Ala Thr Gln Leu Ser Pro Glu Asp Arg Val Glu			
50	55	60	
Asp Ala Leu Pro Pro Ser Lys Ala Pro Ser Arg Thr Arg Arg Ala Lys			

65	70	75	80
Arg Asp Leu Pro Lys Arg Thr Ala Thr Gln Arg Pro Glu Gly Thr Ser			
85	90	95	
Leu Gln Gln Asp Pro Glu Ala Pro Thr Val Pro Lys Lys Gly Arg Arg			
100	105	110	
Lys Gly Arg Gln Ala Ala Ser Gly His Cys Arg Pro Arg Lys Val Lys			
115	120	125	
Ala Asp Ile Pro Ser Leu Glu Pro Glu Gly Thr Ser Ala Ser			
130	135	140	142

<210> 1293  
 <211> 89  
 <212>Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(89)  
 <223> X = any amino acid or stop code

<400> 1293			
Arg Lys Ser Ser Trp Leu Gly Ala Val Ala His Ala Cys Asn Pro Ser			
1	5	10	15
Ser Leu Gly Gly Pro Gly Arg Gln Ile Thr Arg Ser Gly Val Arg Asp			
20	25	30	
Gln Pro Gly Gln Tyr Gly Glu Thr Pro Ser Leu Leu Lys Ile Gln Thr			
35	40	45	
Leu Ala Gly Arg Gly Gly Ala Cys Leu Xaa Ser His Ile Leu Arg Arg			
50	55	60	
Leu Arg Gln Lys Asn Arg Leu Asn Leu Gly Gly Arg Gly Cys Ser Glu			
65	70	75	80
Leu Arg Ser Arg His Cys Ala Pro Ala			
85	89		

<210> 1294  
 <211> 80  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1294			
Ala Trp Asn Ser Ala Arg Gly Ala Val Ser Pro Leu Trp Val Pro Gly			
1	5	10	15
Cys Phe Leu Thr Leu Ser Val Thr Trp Ile Gly Ala Ala Pro Leu Ile			
20	25	30	
Leu Ser Arg Ile Val Gly Gly Trp Glu Cys Glu Lys His Ser Gln Pro			
35	40	45	
Trp Gln Val Leu Val Ala Ser Arg Gly Arg Ala Val Cys Gly Gly Val			
50	55	60	
Leu Val His Pro Gln Trp Val Leu Thr Ala Ala His Cys Ile Arg Lys			
65	70	75	80

<210> 1295  
<211> 281  
<212>Amino acid  
<213> Homo sapiens

<400> 1295  
Ala Glu Met Ala Asp Asp Leu Gly Asp Glu Trp Trp Glu Asn Gln Pro  
1 5 10 15  
Thr Gly Ala Gly Ser Ser Pro Glu Ala Ser Asp Gly Glu Gly Glu Gly  
20 25 30  
Asp Thr Glu Val Met Gln Gln Glu Thr Val Pro Val Pro Val Pro Ser  
35 40 45  
Glu Lys Thr Lys Gln Pro Lys Glu Cys Phe Leu Ile Gln Pro Lys Glu  
50 55 60  
Arg Lys Glu Asn Thr Thr Lys Thr Arg Lys Arg Arg Lys Lys Ile  
65 70 75 80  
Thr Asp Val Leu Ala Lys Ser Glu Pro Lys Pro Gly Leu Pro Glu Asp  
85 90 95  
Leu Gln Lys Leu Met Lys Asp Tyr Tyr Ser Ser Arg Arg Leu Val Ile  
100 105 110  
Glu Leu Glu Leu Asn Leu Pro Asp Ser Cys Phe Leu Lys Ala Asn  
115 120 125  
Asp Leu Thr His Ser Leu Ser Ser Tyr Leu Lys Glu Ile Cys Pro Lys  
130 135 140  
Trp Val Lys Leu Arg Lys Asn His Ser Glu Lys Lys Ser Val Leu Met  
145 150 155 160  
Leu Ile Ile Cys Ser Ser Ala Val Arg Ala Leu Glu Leu Ile Arg Ser  
165 170 175  
Met Thr Ala Phe Arg Gly Asp Gly Lys Val Ile Lys Leu Phe Ala Lys  
180 185 190  
His Ile Lys Val Gln Ala Gln Val Lys Leu Leu Glu Lys Arg Val Val  
195 200 205  
His Leu Gly Val Gly Thr Pro Gly Arg Ile Lys Glu Leu Val Lys Gln  
210 215 220  
Gly Gly Leu Asn Leu Ser Pro Leu Lys Phe Leu Val Phe Asp Trp Asn  
225 230 235 240  
Trp Arg Asp Gln Lys Leu Arg Arg Met Met Asp Ile Pro Glu Ile Arg  
245 250 255  
Lys Glu Val Phe Glu Leu Leu Glu Met Gly Val Leu Ser Leu Cys Lys  
260 265 270  
Ser Glu Ser Leu Lys Leu Gly Leu Phe  
275 280 281

<210> 1296  
<211> 213  
<212>Amino acid  
<213> Homo sapiens

<400> 1296  
Arg Pro Gly Thr Ala Ile Trp Val Val Glu Cys Glu His Gly Arg Pro  
1 5 10 15  
Ile Ala Glu Ser Glu Gly Gln Glu Gly Arg Gly His Ser Pro Pro Gly  
20 25 30  
Pro Cys Ser Val Ala Gly Phe Leu Arg Gly Arg Leu Gly Arg Asn Leu  
35 40 45

Glu Ile Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala  
 50 55 60  
 Leu Cys Leu Thr Gly Leu Val Leu Ser Leu Tyr Ala Leu His Val Lys  
 65 70 75 80  
 Ala Ala Arg Ala Arg Asp Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly  
 85 90 95  
 Thr Ala Ile Ser Cys Ser Arg Val Phe Ser Ser Arg Trp Gly Arg Gly  
 100 105 110  
 Phe Gly Leu Val Glu His Val Leu Gly Gln Asp Ser Ile Leu Asn Gln  
 115 120 125  
 Ser Asn Ser Ile Phe Gly Cys Ile Phe Tyr Thr Leu Gln Leu Leu Leu  
 130 135 140  
 Gly Cys Leu Arg Thr Arg Trp Ala Ser Val Leu Met Leu Leu Ser Ser  
 145 150 155 160  
 Leu Val Ser Leu Ala Gly Ser Val Tyr Leu Ala Trp Ile Leu Phe Phe  
 165 170 175  
 Val Leu Tyr Asp Phe Cys Ile Val Cys Ile Thr Thr Tyr Ala Ile Asn  
 180 185 190  
 Val Ser Leu Met Trp Leu Ser Phe Arg Lys Val Gln Glu Pro Gln Gly  
 195 200 205  
 Lys Ala Lys Arg His  
 210 213

<210> 1297  
 <211> 353  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1297  
 Glu Ser Pro Ala Pro Pro Ala Phe Arg Pro Ala Met Ala Ala Val Ala  
 1 5 10 15  
 Leu Met Pro Pro Pro Leu Leu Leu Leu Leu Leu Leu Ala Ser Pro Pro  
 20 25 30  
 Ala Ala Ser Ala Pro Ser Ala Arg Asp Pro Phe Ala Pro Gln Leu Gly  
 35 40 45  
 Asp Thr Gln Asn Cys Gln Leu Arg Cys Arg Asp Arg Asp Leu Gly Pro  
 50 55 60  
 Gln Pro Ser Gln Ala Gly Leu Glu Gly Ala Ser Gln Glu Ser Pro Tyr Asp  
 65 70 75 80  
 Arg Ala Val Leu Ile Ser Ala Cys Glu Arg Gly Cys Arg Leu Phe Ser  
 85 90 95  
 Ile Cys Arg Phe Val Ala Arg Ser Ser Lys Pro Asn Ala Thr Gln Thr  
 100 105 110  
 Glu Cys Glu Ala Ala Cys Val Glu Ala Tyr Val Lys Glu Ala Glu Gln  
 115 120 125  
 Gln Ala Cys Ser His Gly Cys Trp Ser Gln Pro Ala Glu Pro Glu Pro  
 130 135 140  
 Glu Gln Lys Arg Lys Val Leu Glu Ala Pro Ser Gly Ala Leu Ser Leu  
 145 150 155 160  
 Leu Asp Leu Phe Ser Thr Leu Cys Asn Asp Leu Val Asn Ser Ala Gln  
 165 170 175  
 Gly Phe Val Ser Ser Thr Trp Thr Tyr Tyr Leu Gln Thr Asp Asn Gly  
 180 185 190  
 Lys Val Val Phe Gln Thr Gln Pro Ile Val Glu Ser Leu Gly Phe  
 195 200 205  
 Gln Gly Gly Arg Leu Gln Arg Val Glu Val Thr Trp Arg Gly Ser His  
 210 215 220  
 Pro Glu Ala Leu Glu Val His Val Asp Pro Val Gly Pro Leu Asp Lys  
 225 230 235 240

Val Arg Lys Ala Lys Ile Arg Val Lys Thr Ser Ser Lys Ala Lys Val  
           245                     250                     255  
 Glu Ser Glu Pro Gln Asp Asn Asp Phe Leu Ser Cys Met Ser Arg  
           260                     265                     270  
 Arg Ser Gly Leu Pro Arg Trp Ile Leu Ala Cys Cys Leu Phe Leu Ser  
           275                     280                     285  
 Val Leu Val Met Leu Trp Leu Ser Cys Ser Thr Leu Val Thr Ala Pro  
           290                     295                     300  
 Gly Gln His Leu Lys Phe Gln Pro Leu Thr Leu Glu Gln His Lys Gly  
           305                     310                     315                     320  
 Phe Met Met Glu Pro Asp Trp Pro Leu Tyr Pro Pro Pro Ser His Ala  
           325                     330                     335  
 Cys Glu Asp Ser Leu Pro Pro Tyr Lys Leu Lys Leu Asp Leu Thr Lys  
           340                     345                     350  
 Leu  
 353

<210> 1298  
<211> 161  
<212>Amino acid  
<213> Homo sapiens

<400> 1298  
 Phe Pro Glu Leu Gly Thr Ser Leu Ser Ala Met Arg Phe Leu Ala Ala  
     1                     5                     10                     15  
 Thr Phe Leu Leu Ala Leu Ser Thr Ala Ala Gln Ala Glu Pro Val  
     20                     25                     30  
 Gln Phe Lys Asp Cys Gly Ser Val Asp Gly Val Ile Lys Glu Val Asn  
     35                     40                     45  
 Val Ser Pro Cys Pro Thr Gln Pro Cys Gln Leu Ser Lys Gly Gln Ser  
     50                     55                     60  
 Tyr Ser Val Asn Val Thr Phe Thr Ser Asn Ile Gln Ser Lys Ser Ser  
     65                     70                     75                     80  
 Lys Ala Val Val His Gly Ile Leu Met Gly Val Pro Val Pro Phe Pro  
     85                     90                     95  
 Ile Pro Glu Pro Asp Gly Cys Lys Ser Gly Ile Asn Cys Pro Ile Gln  
     100                     105                     110  
 Lys Asp Lys Thr Tyr Ser Tyr Leu Asn Lys Leu Pro Val Lys Ser Glu  
     115                     120                     125  
 Tyr Pro Ser Ile Lys Leu Val Val Glu Trp Gln Leu Gln Asp Asp Lys  
     130                     135                     140  
 Asn Gln Ser Leu Phe Cys Trp Glu Ile Pro Val Gln Ile Val Ser His  
     145                     150                     155                     160  
 Leu  
 161

<210> 1298  
<211> 128  
<212>Amino acid  
<213> Homo sapiens

<400> 1299  
 Ala Pro Glu Thr Phe Arg Cys Val Trp Arg Ile Gln Gly Leu Thr Phe  
     1                     5                     10                     15

Ile	Ala	Phe	Thr	Glu	Leu	Gln	Ala	Lys	Val	Ile	Asp	Thr	Gln	Gln	Lys
20							25						30		
Val	Lys	Leu	Ala	Asp	Ile	Gln	Ile	Glu	Gln	Leu	Asn	Arg	Thr	Lys	Lys
35							40						45		
His	Ala	His	Leu	Thr	Asp	Thr	Glu	Ile	Met	Thr	Leu	Val	Asp	Glu	Thr
50							55						60		
Asn	Met	Tyr	Glu	Gly	Val	Gly	Arg	Met	Phe	Ile	Leu	Gln	Ser	Lys	Glu
65							70						75		80
Ala	Ile	His	Ser	Gln	Leu	Leu	Glu	Gln	Lys	Ile	Ala	Glu	Glu	Lys	
85							90						95		
Ile	Lys	Glu	Leu	Glu	Gln	Lys	Lys	Ser	Tyr	Leu	Glu	Arg	Ser	Val	Lys
100							105						110		
Glu	Ala	Glu	Asp	Asn	Ile	Arg	Glu	Met	Leu	Met	Ala	Arg	Arg	Ala	Gln
115							120						125		128

<210> 1300  
<211> 265  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(265)  
<223> X = any amino acid or stop code

<400> 1300															
His	Ser	Leu	Leu	Leu	Gly	Thr	Arg	Val	Arg	Asp	Ala	Ser	Ser	Lys	Ile
1							5					10			15
Gln	Gly	Glu	Tyr	Thr	Leu	Thr	Leu	Arg	Lys	Gly	Gly	Asn	Asn	Lys	Leu
20							25							30	
Ser	Arg	Val	Phe	His	Arg	Asp	Gly	His	Tyr	Gly	Phe	Ser	Glu	Pro	Leu
35							40							45	
Thr	Phe	Cys	Ser	Val	Val	Asp	Leu	Ile	Asn	His	Tyr	Arg	His	Glu	Ser
50							55							60	
Leu	Ala	Gln	Tyr	Asn	Ala	Lys	Leu	Asp	Thr	Arg	Leu	Leu	Tyr	Pro	Val
65							70							75	80
Ser	Lys	Tyr	Gln	Gln	Val	Arg	Ala	Gly	Leu	Gly	Ala	Arg	Glu	Gly	Ser
85							90							95	
Thr	Trp	Leu	Ala	Pro	Gly	Leu	Ser	Phe	Leu	Gly	Arg	Pro	Asp	Gln	Ala
100							105							110	
Met	His	Leu	Pro	Ser	Phe	Arg	His	Val	Ser	Pro	Asp	Gln	Ile	Val	Lys
115							120							125	
Glu	Asp	Ser	Val	Glu	Ala	Val	Gly	Ala	Gln	Leu	Lys	Val	Tyr	His	Gln
130							135							140	
Gln	Tyr	Gln	Asp	Lys	Ser	Arg	Glu	Tyr	Asp	Gln	Leu	Tyr	Glu	Gly	Tyr
145							150							155	160
Thr	Arg	Thr	Ser	Gln	Glu	Leu	Gln	Met	Lys	Arg	Thr	Ala	Ile	Glu	Ala
165							170							175	
Phe	Asn	Glu	Thr	Ile	Lys	Ile	Phe	Glu	Glu	Gln	Gly	Gln	Thr	Gln	Glu
180							185							190	
Lys	Cys	Ser	Lys	Glu	Tyr	Leu	Glu	Arg	Phe	Arg	Arg	Glu	Gly	Asn	Gln
195							200							205	
Thr	Lys	Glu	Met	Gln	Arg	Ile	Leu	Leu	Asn	Ser	Glu	Arg	Leu	Lys	Ser
210							215							220	
Arg	Ile	Ala	Glu	Ile	His	Glu	Ser	Pro	His	Arg	Ser	Trp	Glu	Gln	Gln
225							230							235	240
Leu	Leu	Val	Pro	Arg	Ala	Ser	Asp	Asn	Lys	Arg	Asp	Ile	Asp	Lys	Pro

245	250	255
His Xaa Thr Ser Leu Lys Pro Asp Leu		
260	265	

<210> 1301  
<211> 490  
<212>Amino acid  
<213> Homo sapiens

<400> 1301  
Ala Ala Ala Ala Ala Gly Arg Gly Arg Ser Ser Gly Arg Arg Arg Arg  
1               5               10               15  
Arg Arg Pro Gly Ala Leu Phe Ala Ser Leu Gly Val Leu Leu Gly Pro  
20               25               30  
Arg Pro Pro Pro Gly Ile Pro Arg Thr Arg Ala Cys Ser Met Gly Gly  
35               40               45  
Val Gly Glu Pro Gly Pro Arg Glu Gly Pro Ala Gln Pro Gly Ala Pro  
50               55               60  
Leu Pro Thr Phe Cys Trp Glu Gln Ile Arg Ala His Asp Gln Pro Gly  
65               70               75               80  
Asp Lys Trp Leu Val Ile Glu Arg Arg Val Tyr Asp Ile Ser Arg Trp  
85               90               95  
Ala Gln Arg His Pro Gly Gly Ser Arg Leu Ile Gly His His Gly Ala  
100               105               110  
Glu Asp Ala Thr Asp Ala Phe Arg Ala Phe His Gln Asp Leu Asn Phe  
115               120               125  
Val Arg Lys Phe Leu Gln Pro Leu Leu Ile Gly Glu Leu Ala Pro Glu  
130               135               140  
Glu Pro Ser Gln Asp Gly Pro Leu Asn Ala Gln Leu Val Glu Asp Phe  
145               150               155               160  
Arg Ala Leu His Gln Ala Ala Glu Asp Met Lys Leu Phe Asp Ala Ser  
165               170               175  
Pro Thr Phe Phe Ala Phe Leu Leu Gly His Ile Leu Ala Met Glu Val  
180               185               190  
Leu Ala Trp Leu Leu Ile Tyr Leu Leu Gly Pro Gly Trp Val Pro Ser  
195               200               205  
Ala Leu Ala Ala Phe Ile Leu Ala Ile Ser Gln Ala Gln Ser Trp Cys  
210               215               220  
Leu Gln His Asp Leu Gly His Ala Ser Ile Phe Lys Lys Ser Trp Trp  
225               230               235               240  
Asn His Val Ala Gln Lys Phe Val Met Gly Gln Leu Lys Gly Phe Ser  
245               250               255  
Ala His Trp Trp Asn Phe Arg His Phe Gln His His Ala Lys Pro Asn  
260               265               270  
Ile Phe His Lys Asp Pro Asp Val Thr Val Ala Pro Val Phe Leu Leu  
275               280               285  
Gly Glu Ser Ser Val Glu Tyr Gly Lys Lys Arg Arg Tyr Leu Pro  
290               295               300  
Tyr Asn Gln Gln His Leu Tyr Phe Phe Leu Ile Gly Pro Pro Leu Leu  
305               310               315               320  
Thr Leu Val Asn Phe Glu Val Glu Asn Leu Ala Tyr Met Leu Val Cys  
325               330               335  
Met Gln Trp Ala Asp Leu Leu Trp Ala Ala Ser Phe Tyr Ala Arg Phe  
340               345               350  
Phe Leu Ser Tyr Leu Pro Phe Tyr Gly Val Pro Gly Val Leu Leu Phe  
355               360               365  
Phe Val Ala Val Arg Val Leu Glu Ser His Trp Phe Val Trp Ile Thr  
370               375               380  
Gln Met Asn His Ile Pro Lys Glu Ile Gly His Glu Lys His Arg Asp

385	390	395	400
Trp Val Ser Ser Gln Leu Ala Ala Thr Cys Asn Val Glu Pro Ser Leu			
405	410	415	
Phe Thr Asn Trp Phe Ser Gly His Leu Asn Phe Gln Ile Glu His His			
420	425	430	
Leu Phe Pro Arg Met Pro Arg His Asn Tyr Ser Arg Val Ala Pro Leu			
435	440	445	
Val Lys Ser Leu Cys Ala Lys His Gly Leu Ser Tyr Glu Val Lys Pro			
450	455	460	
Phe Leu Thr Ala Leu Val Asp Ile Val Arg Ser Leu Lys Lys Ser Gly			
465	470	475	480
Asp Ile Trp Leu Asp Ala Tyr Leu His Gln			
485	490		

<210> 1302  
<211> 110  
<212>Amino acid  
<213> Homo sapiens

<400> 1302			
Lys Ser Arg Ala Thr Arg Leu Arg Glu Ser Ala Glu Met Thr Gly Phe			
1	5	10	15
Leu Leu Pro Pro Ala Ser Arg Gly Thr Arg Arg Ser Cys Ser Arg Ser			
20	25	30	
Arg Lys Arg Gln Thr Arg Arg Arg Arg Asn Pro Ser Ser Phe Val Ala			
35	40	45	
Ser Cys Pro Thr Leu Leu Pro Phe Ala Cys Val Pro Gly Ala Ser Pro			
50	55	60	
Thr Thr Leu Ala Phe Pro Pro Val Val Leu Thr Gly Pro Ser Thr Asp			
65	70	75	80
Gly Ile Pro Phe Ala Leu Ser Leu Gln Arg Val Pro Phe Val Leu Pro			
85	90	95	
Ser Pro Gln Val Ala Ser Leu Pro Leu Gly His Ser Arg Gly			
100	105	110	

<210> 1303  
<211> 138  
<212>Amino acid  
<213> Homo sapiens

<400> 1303			
Ile Gln Tyr Arg Ser Asp Leu Glu Leu His Ser Ile Thr Met Lys Lys			
1	5	10	15
Ser Gly Val Leu Phe Leu Leu Gly Ile Ile Leu Leu Val Leu Ile Gly			
20	25	30	
Val Gln Gly Thr Pro Val Val Arg Lys Gly Arg Cys Ser Cys Ile Ser			
35	40	45	
Thr Asn Gln Gly Thr Ile His Leu Gln Ser Leu Lys Asp Leu Lys Gln			
50	55	60	
Phe Ala Pro Ser Pro Ser Cys Glu Lys Ile Glu Ile Ile Ala Thr Leu			
65	70	75	80
Lys Asn Gly Val Gln Thr Cys Leu Asn Pro Asp Ser Ala Asp Val Lys			
85	90	95	
Glu Leu Ile Lys Lys Trp Glu Lys Gln Val Ser Gln Lys Lys Gln			

Lys Asn Gly	100	105	110
Lys Lys His Gln Lys			
115	120	125	
Ser Gln Arg Ser Arg Gln Lys			
130	135	138	

<210> 1304  
<211> 1000  
<212>Amino acid  
<213> Homo sapiens

<400> 1304

Ile Pro Gly Ser Thr Ile Ser Cys Arg Gly Cys Cys Gly Lys Trp Pro			
1	5	10	15
Val Gln Glu Ala Asp Pro Pro Arg Ala Ala Leu Arg Gly Arg Phe Pro			
20	25	30	
Ala Leu Leu Thr Arg His Cys Pro Ser Pro Arg Ala Glu Lys Glu Lys			
35	40	45	
Arg Ser Leu Arg Arg Cys Gly Cys Arg Pro Leu Leu Val Glu Leu Ala			
50	55	60	
Gly Pro Ala Gly Gln Ala Val Glu Val Leu Pro His Phe Glu Ser Leu			
65	70	75	80
Gly Lys Gln Glu Lys Ile Pro Asn Lys Met Ser Ala Phe Arg Asn His			
85	90	95	
Cys Pro His Leu Asp Ser Val Gly Glu Ile Thr Lys Glu Asp Leu Ile			
100	105	110	
Gln Lys Ser Leu Gly Thr Cys Gln Asp Cys Lys Val Gln Gly Pro Asn			
115	120	125	
Leu Trp Ala Cys Leu Glu Asn Arg Cys Ser Tyr Val Gly Cys Gly Glu			
130	135	140	
Ser Gln Val Asp His Ser Thr Ile His Ser Gln Glu Thr Lys His Tyr			
145	150	155	160
Leu Thr Val Asn Leu Thr Thr Leu Arg Val Trp Cys Tyr Ala Cys Ser			
165	170	175	
Lys Glu Val Phe Leu Asp Arg Lys Leu Gly Thr Gln Pro Ser Leu Pro			
180	185	190	
His Val Arg Gln Pro His Gln Ile Gln Glu Asn Ser Val Gln Asp Phe			
195	200	205	
Lys Ile Pro Ser Asn Thr Thr Leu Lys Thr Pro Leu Val Ala Val Phe			
210	215	220	
Asp Asp Leu Asp Ile Glu Ala Asp Glu Glu Asp Glu Leu Arg Ala Arg			
225	230	235	240
Gly Leu Thr Gly Leu Lys Asn Ile Gly Asn Thr Cys Tyr Met Asn Ala			
245	250	255	
Ala Leu Gln Ala Leu Ser Asn Cys Pro Pro Leu Thr Gln Phe Phe Leu			
260	265	270	
Asp Cys Gly Gly Leu Ala Arg Thr Asp Lys Lys Pro Ala Ile Cys Lys			
275	280	285	
Ser Tyr Leu Lys Leu Met Thr Glu Leu Trp Tyr Lys Ser Arg Pro Gly			
290	295	300	
Ser Val Val Pro Thr Thr Leu Phe Gln Gly Ile Lys Thr Val Asn Pro			
305	310	315	320
Thr Phe Arg Gly Tyr Ser Gln Gln Asp Ala Gln Glu Phe Leu Arg Cys			
325	330	335	
Leu Met Asp Leu Leu His Glu Glu Leu Lys Glu Gln Val Met Glu Val			
340	345	350	
Glu Glu Asp Pro Gln Thr Ile Thr Glu Glu Thr Met Glu Glu Asp			
355	360	365	
Lys Ser Gln Ser Asp Val Asp Phe Gln Ser Cys Glu Ser Cys Ser Asn			

370	375	380
Ser Asp Arg Ala Glu Asn Glu Asn Gly Ser Arg Cys Phe Ser Glu Asp		
385	390	395
Asn Asn Glu Thr Thr Met Leu Ile Gln Asp Asp Glu Asn Asn Ser Glu		400
405	410	415
Met Ser Lys Asp Trp Gln Lys Glu Lys Met Cys Asn Lys Ile Asn Lys		
420	425	430
Val Asn Ser Glu Gly Glu Phe Asp Lys Asp Arg Asp Ser Ile Ser Glu		
435	440	445
Thr Val Asp Leu Asn Asn Gln Glu Thr Val Lys Val Gln Ile His Ser		
450	455	460
Arg Ala Ser Glu Tyr Ile Thr Asp Val His Ser Asn Asp Leu Ser Thr		
465	470	475
Pro Gln Ile Leu Pro Ser Asn Glu Gly Val Asn Pro Arg Leu Ser Ala		480
495	490	495
Ser Pro Pro Lys Ser Gly Asn Leu Trp Pro Gly Leu Ala Pro Pro His		
500	505	510
Lys Lys Ala Gln Ser Ala Ser Pro Lys Arg Lys Lys Gln His Lys Lys		
515	520	525
Tyr Arg Ser Val Ile Ser Asp Ile Phe Asp Gly Thr Ile Ile Ser Ser		
530	535	540
Val Gln Cys Leu Thr Cys Asp Arg Val Ser Val Thr Leu Glu Thr Phe		
545	550	555
Gln Asp Leu Ser Leu Pro Ile Pro Gly Lys Glu Asp Leu Ala Lys Leu		560
565	570	575
His Ser Ser His Pro Thr Ser Ile Val Lys Ala Gly Ser Cys Gly		
580	585	590
Glu Ala Tyr Ala Pro Gln Gly Trp Ile Ala Phe Phe Met Glu Tyr Val		
595	600	605
Lys Arg Phe Val Val Ser Cys Val Pro Ser Trp Phe Trp Gly Pro Val		
610	615	620
Val Thr Leu Gln Asp Cys Leu Ala Ala Phe Phe Ala Arg Asp Glu Leu		
625	630	635
Lys Gly Asp Asn Met Tyr Ser Cys Glu Lys Cys Lys Lys Leu Arg Asn		640
645	650	655
Gly Val Lys Phe Cys Lys Val Gln Asn Phe Pro Glu Ile Leu Cys Ile		
660	665	670
His Leu Lys Arg Phe Arg His Glu Leu Met Phe Ser Thr Lys Ile Ser		
675	680	685
Thr His Val Ser Phe Pro Leu Glu Gly Leu Asp Leu Gln Pro Phe Leu		
690	695	700
Ala Lys Asp Ser Pro Ala Gln Ile Val Thr Tyr Asp Leu Leu Ser Val		
705	710	715
Ile Cys His His Gly Thr Ala Ser Ser Gly His Tyr Ile Ala Tyr Cys		720
725	730	735
Arg Asn Asn Leu Asn Asn Leu Trp Tyr Glu Phe Asp Asp Gln Ser Val		
740	745	750
Thr Glu Val Ser Glu Ser Thr Val Gln Asn Ala Glu Ala Tyr Val Leu		
755	760	765
Phe Tyr Arg Lys Ser Ser Glu Glu Ala Gln Lys Glu Arg Arg Arg Ile		
770	775	780
Ser Asn Leu Leu Asn Ile Met Glu Pro Ser Leu Leu Gln Phe Tyr Ile		
785	790	795
Ser Arg Gln Trp Leu Asn Lys Phe Lys Thr Phe Ala Glu Pro Gly Pro		800
805	810	815
Ile Ser Asn Asn Asp Phe Leu Cys Ile His Gly Gly Val Pro Pro Arg		
820	825	830
Lys Ala Gly Tyr Ile Glu Asp Leu Val Leu Met Leu Pro Gln Asn Ile		
835	840	845
Trp Asp Asn Leu Tyr Ser Arg Tyr Gly Gly Pro Ala Val Asn His		
850	855	860
Leu Tyr Ile Cys His Thr Cys Gln Ile Glu Ala Glu Lys Ile Glu Lys		
865	870	875
Arg Arg Lys Thr Glu Leu Glu Ile Phe Ile Arg Leu Asn Arg Ala Phe		880

Gln	Lys	Glu	Asp	Ser	Pro	Ala	Thr	Phe	Tyr	Cys	Ile	Ser	Met	Gln	Trp
900		900						905						910	
Phe	Arg	Glu	Trp	Glu	Ser	Phe	Val	Lys	Gly	Lys	Asp	Gly	Asp	Pro	Pro
915						915		920					925		
Gly	Pro	Ile	Asp	Asn	Thr	Lys	Ile	Ala	Val	Thr	Lys	Cys	Gly	Asn	Val
930						930		935			940				
Met	Leu	Arg	Gln	Gly	Ala	Asp	Ser	Gly	Gln	Ile	Ser	Glu	Glu	Thr	Trp
945						945		950			955			960	
Asn	Phe	Leu	Gln	Ser	Ile	Tyr	Gly	Gly	Gly	Pro	Glu	Val	Ile	Leu	Arg
965						965		970			975				
Pro	Pro	Val	Val	His	Val	Asp	Pro	Asp	Ile	Leu	Gln	Ala	Glu	Glu	Lys
980						980		985			990				
Ile	Glu	Val	Glu	Thr	Arg	Ser	Leu								
995								1000							

<210> 1305  
<211> 141  
<212>Amino acid  
<213> Homo sapiens

Ser	Pro	Ser	Ala	Ala	Gly	Gly	Leu	Ala	Trp	Val	Ser	Leu	Ala	Leu	Gly
1					5					10					15
Ser	Gly	Ser	Arg	Gly	Arg	Asp	His	Ser	Gly	Ser	Gly	Val	Gly	Thr	Ala
							20			25					30
Met	Ala	Gly	Ala	Leu	Val	Arg	Lys	Ala	Ala	Asp	Tyr	Val	Arg	Ser	Lys
							35			40					45
Asp	Phe	Arg	Asp	Tyr	Leu	Met	Ser	Thr	His	Phe	Trp	Gly	Pro	Val	Ala
							50			55					60
Asn	Trp	Gly	Leu	Pro	Ile	Ala	Ala	Ile	Asn	Asp	Met	Lys	Lys	Ser	Pro
							65			70					80
Glu	Ile	Ile	Ser	Gly	Arg	Met	Thr	Phe	Ala	Leu	Cys	Cys	Tyr	Ser	Leu
							85			90					95
Thr	Phe	Met	Arg	Phe	Ala	Tyr	Lys	Val	Gln	Pro	Arg	Asn	Trp	Leu	Leu
							100			105					110
Phe	Ala	Cys	His	Ala	Thr	Asn	Glu	Val	Ala	Gln	Leu	Ile	Gln	Gly	Gly
							115			120					125
Arg	Leu	Ile	Lys	His	Glu	Met	Thr	Lys	Thr	Ala	Ser	Ala			
							130			135					140 141

<210> 1306  
<211> 386  
<212>Amino acid  
<213> Homo sapiens

Leu	Gly	Ser	Arg	Gln	Ala	Ala	Gly	Thr	Met	Arg	Gly	Gln	Arg	Ser	Leu
1							5			10					15
Leu	Leu	Gly	Pro	Ala	Arg	Leu	Cys	Leu	Arg	Leu	Leu	Leu	Leu	Gly	
							20			25					30
Tyr	Arg	Arg	Arg	Cys	Pro	Pro	Leu	Leu	Arg	Gly	Leu	Val	Gln	Arg	Trp
							35			40					45
Arg	Tyr	Gly	Lys	Val	Cys	Leu	Arg	Ser	Leu	Leu	Tyr	Asn	Ser	Phe	Gly

Gly Ser Asp Thr Ala Val Asp Ala Ala Phe Glu Pro Val Tyr Trp Leu	55	60
65	70	75
Val Asp Asn Val Ile Arg Trp Phe Gly Val Val Phe Val Val Leu Val		80
85	90	95
Ile Val Leu Thr Gly Ser Ile Val Ala Ile Ala Tyr Leu Cys Val Leu		
100	105	110
Pro Leu Ile Leu Arg Thr Tyr Ser Val Pro Arg Leu Cys Trp His Phe		
115	120	125
Phe Tyr Ser His Trp Asn Leu Ile Leu Ile Val Phe His Tyr Tyr Gln		
130	135	140
Ala Ile Thr Thr Pro Pro Gly Tyr Pro Pro Gln Gly Arg Asn Asp Ile		
145	150	155
Ala Thr Val Ser Ile Cys Lys Lys Cys Ile Tyr Pro Lys Pro Ala Arg		
165	170	175
Thr His His Cys Ser Ile Cys Asn Arg Cys Val Leu Lys Met Asp His		
180	185	190
His Cys Pro Trp Leu Asn Asn Cys Val Gly His Tyr Asn His Arg Tyr		
195	200	205
Phe Phe Ser Phe Cys Phe Phe Met Thr Leu Gly Cys Val Tyr Cys Ser		
210	215	220
Tyr Gly Ser Trp Asp Leu Phe Arg Glu Ala Tyr Ala Ala Ile Glu Lys		
225	230	235
Met Lys Gln Leu Asp Lys Asn Lys Leu Gln Ala Val Ala Asn Gln Thr		
245	250	255
Tyr His Gln Thr Pro Pro Pro Thr Phe Ser Phe Arg Glu Arg Met Thr		
260	265	270
His Lys Ser Leu Val Tyr Leu Trp Phe Leu Cys Ser Ser Val Ala Leu		
275	280	285
Ala Leu Gly Ala Leu Thr Val Trp His Ala Val Leu Ile Ser Arg Gly		
290	295	300
Glu Thr Ser Ile Glu Arg His Ile Asn Lys Lys Glu Arg Arg Arg Leu		
305	310	315
Gln Ala Lys Gly Arg Val Phe Arg Asn Pro Tyr Asn Tyr Gly Cys Leu		
325	330	335
Asp Asn Trp Lys Val Phe Leu Gly Val Asp Thr Gly Arg His Trp Leu		
340	345	350
Thr Arg Val Leu Leu Pro Ser Ser His Leu Pro His Gly Asn Gly Met		
355	360	365
Ser Trp Glu Pro Pro Pro Trp Val Thr Ala His Ser Ala Ser Val Met		
370	375	380
Ala Val		
385 386		

<210> 1307  
 <211> 298  
 <212>Amino acid  
 <213> Homo sapiens

Ala Thr Arg Arg Arg Ala Ala Glu Ala Gly Met Ala Ala Val Leu Gln		
1	5	10
Arg Val Glu Arg Leu Ser Asn Arg Val Val Arg Val Leu Gly Cys Asn		
20	25	30
Pro Gly Pro Met Thr Leu Gln Gly Thr Asn Thr Tyr Leu Val Gly Thr		
35	40	45
Gly Pro Arg Arg Ile Leu Ile Asp Thr Gly Glu Pro Ala Ile Pro Glu		
50	55	60
Tyr Ile Ser Cys Leu Lys Gln Ala Leu Thr Glu Phe Asn Thr Ala Ile		

65	70	75	80
Gln Glu Ile Val Val Thr His Trp His Arg Asp His Ser Gly Gly Ile			
85	90	95	
Gly Asp Ile Cys Lys Ser Ile Asn Asn Asp Thr Thr Tyr Cys Ile Lys			
100	105	110	
Lys Leu Pro Arg Asn Pro Gln Arg Glu Glu Ile Ile Gly Asn Gly Glu			
115	120	125	
Gln Gln Tyr Val Tyr Leu Lys Asp Gly Asp Val Ile Lys Thr Glu Gly			
130	135	140	
Ala Thr Leu Arg Val Leu Tyr Thr Pro Gly His Thr Asp Asp His Met			
145	150	155	160
Ala Leu Leu Leu Glu Glu Asn Ala Ile Phe Ser Gly Asp Cys Ile			
165	170	175	
Leu Gly Glu Gly Thr Thr Val Phe Glu Asp Leu Tyr Asp Tyr Met Asn			
180	185	190	
Ser Leu Lys Glu Leu Leu Lys Ile Lys Ala Asp Ile Ile Tyr Pro Gly			
195	200	205	
His Gly Pro Val Ile His Asn Ala Glu Ala Lys Ile Gln Gln Tyr Ile			
210	215	220	
Ser His Arg Asn Ile Arg Glu Gln Gln Ile Leu Thr Leu Phe Arg Glu			
225	230	235	240
Asn Phe Glu Lys Ser Phe Thr Val Met Glu Leu Val Lys Ile Ile Tyr			
245	250	255	
Lys Asn Thr Pro Glu Asn Leu His Glu Met Ala Lys His Asn Leu Leu			
260	265	270	
Leu His Leu Lys Lys Leu Glu Lys Glu Gly Lys Ile Phe Ser Asn Thr			
275	280	285	
Asp Pro Asp Lys Lys Trp Lys Ala His Leu			
290	295	298	

<210> 1308  
 <211> 306  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1308			
Glu Leu His Arg Ala Gly Gln Val Ala Gly Gly Ala Arg Arg Ser Arg			
1	5	10	15
Arg Glu Ser Met Glu Leu Glu Arg Ile Val Ser Ala Ala Leu Leu Ala			
20	25	30	
Phe Val Gln Thr His Leu Pro Glu Ala Asp Leu Ser Gly Leu Asp Glu			
35	40	45	
Val Ile Phe Ser Tyr Val Leu Gly Val Leu Glu Asp Leu Gly Pro Ser			
50	55	60	
Gly Pro Ser Glu Glu Asn Phe Asp Met Glu Ala Phe Thr Glu Met Met			
65	70	75	80
Glu Ala Tyr Val Pro Gly Phe Ala His Ile Pro Arg Gly Thr Ile Gly			
85	90	95	
Asp Met Met Gln Lys Leu Ser Gly Gln Leu Ser Asp Ala Arg Asn Lys			
100	105	110	
Glu Asn Leu Gln Pro Gln Ser Ser Gly Val Gln Gly Gln Val Pro Ile			
115	120	125	
Ser Pro Glu Pro Leu Gln Arg Pro Glu Met Leu Lys Glu Glu Thr Arg			
130	135	140	
Ser Ser Ala Ala Ala Ala Asp Thr Gln Asp Glu Ala Thr Gly Ala			
145	150	155	160
Glu Glu Glu Leu Leu Pro Gly Val Asp Val Leu Leu Glu Val Phe Pro			
165	170	175	
Thr Cys Ser Val Glu Gln Ala Gln Trp Val Leu Ala Lys Ala Arg Gly			

Asp	Leu	Glu	Glu	Ala	Val	Gln	Met	Leu	Val	Glu	Gly	Lys	Glu	Glu	Gly
180						185				190					
195						200				205					
Pro	Ala	Ala	Trp	Glu	Gly	Pro	Asn	Gln	Asp	Leu	Pro	Arg	Arg	Leu	Arg
210						215				220					
Gly	Pro	Gln	Lys	Asp	Glu	Leu	Lys	Ser	Phe	Ile	Leu	Gln	Lys	Tyr	Met
225						230				235					240
Met	Val	Asp	Ser	Ala	Glu	Asp	Gln	Lys	Ile	His	Arg	Pro	Met	Ala	Pro
245						250				255					255
Lys	Glu	Ala	Pro	Lys	Lys	Leu	Ile	Arg	Tyr	Ile	Asp	Asn	Gln	Val	Val
260						265				270					
Ser	Thr	Lys	Gly	Glu	Arg	Phe	Lys	Asp	Val	Arg	Asn	Pro	Glu	Ala	Glu
275						280				285					
Glu	Met	Lys	Ala	Thr	Tyr	Ile	Asn	Leu	Lys	Pro	Ala	Arg	Lys	Tyr	Arg
290						295				300					
Phe	His														
305	306														

<210> 1309  
<211> 174  
<212>Amino acid  
<213> Homo sapiens

<400> 1309															
Phe	Ile	Thr	Gly	Lys	Gly	Ile	Val	Ala	Ile	Leu	Arg	Cys	Leu	Gln	Phe
1						5				10					15
Asn	Glu	Thr	Leu	Thr	Glu	Leu	Arg	Phe	His	Asn	Gln	Arg	His	Met	Leu
20						25									30
Gly	His	His	Ala	Glu	Met	Glu	Ile	Ala	Arg	Leu	Leu	Lys	Ala	Asn	Asn
35						40									45
Thr	Leu	Leu	Lys	Met	Gly	Tyr	His	Phe	Glu	Leu	Pro	Gly	Pro	Arg	Met
50						55									60
Val	Val	Thr	Asn	Leu	Leu	Thr	Arg	Asn	Gln	Asp	Lys	Gln	Arg	Gln	Lys
65						70									80
Arg	Gln	Glu	Glu	Gln	Lys	Gln	Gln	Leu	Lys	Glu	Gln	Lys	Lys	Leu	
85						90									95
Ile	Ala	Met	Leu	Glu	Asn	Gly	Leu	Gly	Leu	Pro	Pro	Gly	Met	Trp	Glu
100						105									110
Leu	Leu	Gly	Gly	Pro	Lys	Pro	Asp	Ser	Arg	Met	Gln	Glu	Phe	Phe	Gln
115						120									125
Pro	Pro	Pro	Pro	Arg	Pro	Pro	Asn	Pro	Gln	Asn	Val	Pro	Phe	Ser	Gln
130						135									140
Arg	Ser	Glu	Met	Met	Lys	Lys	Pro	Ser	Gln	Ala	Pro	Lys	Tyr	Arg	Thr
145						150									160
Asp	Pro	Asp	Ser	Phe	Arg	Val	Val	Lys	Leu	Lys	Arg	Ile	Gln		
165						170									174

<210> 1310  
<211> 616  
<212>Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> (1)...(616)  
<223> X = any amino acid or stop code

<400> 1310  
 Gly Gly Arg Ala Gly Thr Gln Cys Cys Trp Arg Ala Gly Ala Arg Leu  
 1 5 10 15  
 Arg Gly Ile Ser Pro Ser Pro Ala Leu Pro Glu Ala Pro Gly Leu Cys  
 20 25 30  
 Arg Val Arg Ala Gly Leu Gly Ala Gly Ala Leu Gly Arg Ser Pro Ala  
 35 40 45  
 Gly Arg Arg Arg Gly Pro Arg Val Ser Ser Ser Pro Ala Pro His  
 50 55 60  
 Pro Arg Arg Val Leu Cys Arg Cys Leu Leu Phe Leu Phe Ser Cys  
 65 70 75 80  
 His Asp Arg Arg Gly Asp Ser Gln Pro Tyr Gln Ala Leu Lys Tyr Ser  
 85 90 95  
 Ser Lys Ser His Pro Ser Ser Gly Asp His Arg His Glu Lys Met Arg  
 100 105 110  
 Asp Ala Gly Asp Pro Ser Pro Pro Asn Lys Met Leu Arg Arg Ser Asp  
 115 120 125  
 Ser Pro Glu Asn Lys Tyr Ser Asp Ser Thr Gly His Ser Lys Ala Lys  
 130 135 140  
 Asn Val His Thr His Arg Val Arg Glu Arg Asp Gly Gly Thr Ser Tyr  
 145 150 155 160  
 Ser Pro Gln Glu Asn Ser His Asn His Ala Leu His Ser Ser Asn  
 165 170 175  
 Phe Thr Phe Leu Ile Pro Ser Asn Xaa Pro Gln Gly Lys Thr Phe  
 180 185 190  
 Arg Ile Ala Pro Tyr Asp Ser Ala Asp Asp Trp Ser Leu Glu His Ile  
 195 200 205  
 Ser Ser Gly Glu Lys Tyr Tyr Asn Cys Arg Thr Glu Val Ser  
 210 215 220  
 Gln Trp Gly Lys Thr Pro Lys Ser Gly Leu Glu Arg Gly Gln Arg Gln  
 225 230 235 240  
 Lys Glu Ala Asn Lys Met Ala Val Asn Ser Phe Pro Lys Asp Arg Asp  
 245 250 255  
 Tyr Arg Arg Glu Val Met Gln Ala Thr Ala Thr Ser Gly Phe Ala Ser  
 260 265 270  
 Gly Lys Ser Thr Ser Gly Asp Lys Pro Val Ser His Ser Cys Thr Thr  
 275 280 285  
 Pro Ser Thr Ser Ser Ala Ser Gly Leu Asn Pro Thr Ser Ala Pro Pro  
 290 295 300  
 Thr Ser Ala Ser Ala Val Pro Val Ser Pro Val Pro Gln Ser Pro Ile  
 305 310 315 320  
 Pro Pro Leu Leu Gln Asp Pro Asn Leu Leu Arg Gln Leu Leu Pro Ala  
 325 330 335  
 Leu Glu Ala Thr Leu Gln Leu Asn Asn Ser Asn Val Asp Ile Ser Ile  
 340 345 350  
 Ile Asn Glu Val Leu Thr Gly Asp Val Thr Gln Ala Ser Leu Gln Thr  
 355 360 365  
 Ile Ile His Lys Cys Leu Thr Ala Gly Pro Ser Val Phe Lys Ile Thr  
 370 375 380  
 Ser Leu Ile Ser Gln Ala Ala Gln Leu Ser Thr Gln Ala Gln Ala Ser  
 385 390 395 400  
 Asn Gln Ser Pro Met Ser Leu Thr Ser Asp Ala Ser Ser Pro Arg Ser  
 405 410 415  
 Tyr Val Ser Pro Arg Asn Lys Ala His Leu Lys Leu Asn Thr Val Pro  
 420 425 430  
 Ile Gln Thr Phe Gly Phe Ser Thr Pro Pro Val Ser Ser Gln Pro Lys  
 435 440 445  
 Val Ser Thr Pro Val Val Lys Gln Gly Pro Val Ser Gln Ser Ala Thr  
 450 455 460  
 Gln Gln Pro Val Thr Ala Asp Lys Gln Gln Gly His Glu Pro Val Ser  
 465 470 475 480

Pro Arg Ser Leu Gln Arg Ser Ser Ser Gln Arg Ser Pro Ser Pro Gly  
                   485                   490                   495  
 Pro Asn His Thr Ser Asn Ser Ser Asn Ala Ser Asn Ala Thr Val Val  
                   500                   505                   510  
 Pro Gln Asn Ser Ser Ala Arg Ser Thr Cys Ser Leu Thr Pro Ala Leu  
                   515                   520                   525  
 Ala Ala His Phe Ser Glu Asn Leu Ile Lys His Val Gln Gly Trp Pro  
                   530                   535                   540  
 Ala Asp His Ala Glu Lys Gln Ala Ser Arg Leu Arg Glu Ala His  
                   545                   550                   555                   560  
 Asn Met Gly Thr Ile His Met Ser Glu Ile Cys Thr Glu Leu Lys Asn  
                   565                   570                   575  
 Leu Arg Ser Leu Val Arg Val Cys Glu Ile Gln Ala Thr Leu Arg Glu  
                   580                   585                   590  
 Gln Arg Ile Leu Phe Leu Arg Gln Gln Ile Lys Glu Leu Glu Lys Leu  
                   595                   600                   605  
 Lys Asn Gln Asn Ser Phe Met Val  
                   610                   615                   616

<210> 1311  
 <211> 387  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1311  
 Val Ala Pro Glu Cys Arg Gly Ala Tyr Pro Phe Arg Ala Met Met Pro  
   1               5                   10                   15  
 Gly Thr Ala Leu Lys Ala Val Leu Leu Ala Val Leu Leu Val Gly Leu  
   20               25                   30  
 Gln Thr Ala Thr Gly Arg Leu Leu Ser Gly Gln Pro Val Cys Arg Gly  
   35               40                   45  
 Gly Thr Gln Arg Pro Cys Tyr Lys Val Ile Tyr Phe His Asp Thr Ser  
   50               55                   60  
 Arg Arg Leu Asn Phe Glu Ala Lys Glu Ala Cys Arg Arg Asp Gly  
   65               70                   75                   80  
 Gly Gln Leu Val Ser Ile Glu Ser Glu Asp Glu Gln Lys Leu Ile Glu  
   85               90                   95  
 Lys Phe Ile Glu Asn Leu Leu Pro Ser Asp Gly Asp Phe Trp Ile Gly  
   100              105                   110  
 Leu Arg Arg Glu Glu Lys Gln Ser Asn Ser Thr Ala Cys Gln Asp  
   115              120                   125  
 Leu Tyr Ala Trp Thr Asp Gly Ser Ile Ser Gln Phe Arg Asn Trp Tyr  
   130              135                   140  
 Val Asp Glu Pro Ser Cys Gly Ser Glu Val Cys Val Val Met Tyr His  
   145              150                   155                   160  
 Gln Pro Ser Ala Pro Ala Gly Ile Gly Gly Pro Tyr Met Phe Gln Trp  
   165              170                   175  
 Asn Asp Asp Arg Cys Asn Met Lys Asn Asn Phe Ile Cys Lys Tyr Ser  
   180              185                   190  
 Asp Glu Lys Pro Ala Val Pro Ser Arg Glu Ala Glu Gly Glu Glu Thr  
   195              200                   205  
 Glu Leu Thr Thr Pro Val Leu Pro Glu Glu Thr Gln Glu Glu Asp Ala  
   210              215                   220  
 Lys Lys Thr Phe Lys Glu Ser Arg Glu Ala Ala Leu Asn Leu Ala Tyr  
   225              230                   235                   240  
 Ile Leu Ile Pro Ser Ile Pro Leu Leu Leu Leu Val Val Thr Thr  
   245              250                   255  
 Val Val Cys Trp Val Trp Ile Cys Arg Lys Arg Lys Glu Gln Pro  
   260              265                   270

Asp Pro Ser Thr Lys Lys Gln His Thr Ile Trp Pro Ser Pro His Gln  
     275                       280                       285  
 Gly Asn Ser Pro Asp Leu Glu Val Tyr Asn Val Ile Arg Lys Gln Ser  
     290                       295                       300  
 Glu Ala Asp Leu Ala Glu Thr Arg Pro Asp Leu Lys Asn Ile Ser Phe  
     305                       310                       315                       320  
 Arg Val Cys Ser Gly Glu Ala Thr Pro Asp Asp Met Ser Cys Asp Tyr  
     325                       330                       335  
 Asp Asn Met Ala Val Asn Pro Ser Glu Ser Gly Phe Val Thr Leu Val  
     340                       345                       350  
 Ser Val Glu Ser Gly Phe Val Thr Asn Asp Ile Tyr Glu Phe Ser Pro  
     355                       360                       365  
 Asp Glu Met Gly Arg Ser Lys Glu Ser Gly Trp Val Glu Asn Glu Ile  
     370                       375                       380  
 Tyr Gly Tyr  
     385                       387

<210> 1312  
 <211> 470  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1312  
 Thr Glu Trp Gly Leu Ser Gly Ser Cys Pro Gly Cys Ser Pro Leu Glu  
     1                       5                               10                       15  
 Pro Gly Ser Arg Gly Arg Gly Ala Ala Ala Trp Arg Ile Leu Arg Cys  
     20                       25                               30  
 Arg Arg Leu Pro Glu Pro Ser Pro Phe Leu Thr Gln Pro Asn Leu Ala  
     35                       40                               45  
 Gln Ser Gln Pro Pro Ala Pro Val Pro Val Thr Asp Pro Ser Val Thr  
     50                       55                               60  
 Met His Pro Ala Val Phe Leu Ser Leu Pro Asp Leu Arg Cys Ser Leu  
     65                       70                               75                       80  
 Leu Leu Leu Val Thr Trp Val Phe Thr Pro Val Thr Thr Glu Ile Thr  
     85                       90                               95  
 Ser Leu Asp Thr Glu Asn Ile Asp Glu Ile Leu Asn Asn Ala Asp Val  
     100                       105                               110  
 Ala Leu Val Asn Phe Tyr Ala Asp Trp Cys Arg Phe Ser Gln Met Leu  
     115                       120                               125  
 His Pro Ile Phe Glu Glu Ala Ser Asp Val Ile Lys Glu Glu Phe Pro  
     130                       135                               140  
 Asn Glu Asn Gln Val Val Phe Ala Arg Val Asp Cys Asp Gln His Ser  
     145                       150                               155                       160  
 Asp Ile Ala Gln Arg Tyr Arg Ile Ser Lys Tyr Pro Thr Leu Lys Leu  
     165                       170                               175  
 Phe Arg Asn Gly Met Met Met Lys Arg Glu Tyr Arg Gly Gln Arg Ser  
     180                       185                               190  
 Val Lys Ala Leu Ala Asp Tyr Ile Arg Gln Gln Lys Ser Asp Pro Ile  
     195                       200                               205  
 Gln Glu Ile Arg Asp Leu Ala Glu Ile Thr Thr Leu Asp Arg Ser Lys  
     210                       215                               220  
 Arg Asn Ile Ile Gly Tyr Phe Glu Gln Lys Asp Ser Asp Asn Tyr Arg  
     225                       230                               235                       240  
 Val Phe Glu Arg Val Ala Asn Ile Leu His Asp Asp Cys Ala Phe Leu  
     245                       250                               255  
 Ser Ala Phe Gly Asp Val Ser Lys Pro Glu Arg Tyr Ser Gly Asp Asn  
     260                       265                               270  
 Ile Ile Tyr Lys Pro Pro Gly His Ser Ala Pro Asp Met Val Tyr Leu  
     275                       280                               285

Gly Ala Met Thr Asn Phe Asp Val Thr Tyr Asn Trp Ile Gln Asp Lys  
 290 295 300  
 Cys Val Pro Leu Val Arg Glu Ile Thr Phe Glu Asn Gly Glu Glu Leu  
 305 310 315 320  
 Thr Glu Glu Gly Leu Pro Phe Leu Ile Leu Phe His Met Lys Glu Asp  
 325 330 335  
 Thr Glu Ser Leu Glu Ile Phe Gln Asn Glu Val Ala Arg Gln Leu Ile  
 340 345 350  
 Ser Glu Lys Gly Thr Ile Asn Phe Leu His Ala Asp Cys Asp Lys Phe  
 355 360 365  
 Arg His Pro Leu Leu His Ile Gln Lys Thr Pro Ala Asp Cys Pro Val  
 370 375 380  
 Ile Ala Ile Asp Ser Phe Arg His Met Tyr Val Phe Gly Asp Phe Lys  
 385 390 395 400  
 Asp Val Leu Ile Pro Gly Lys Leu Lys Gln Phe Val Phe Asp Leu His  
 405 410 415  
 Ser Gly Lys Leu His Arg Glu Phe His His Gly Pro Asp Pro Thr Asp  
 420 425 430  
 Thr Ala Pro Gly Glu Gln Ala Gln Asp Val Ala Ser Ser Pro Pro Glu  
 435 440 445  
 Ser Ser Phe Gln Lys Leu Ala Pro Ser Glu Tyr Arg Tyr Thr Leu Leu  
 450 455 460  
 Arg Asp Arg Asp Glu Leu  
 465 470

<210> 1313  
<211> 262  
<212>Amino acid  
<213> Homo sapiens

<400> 1313  
 Leu Thr Pro Ser Val Gly Pro Val Phe Pro Gly Arg Pro Thr Arg Pro  
 1 5 10 15  
 Leu Ala Ser Pro Phe Pro Val Pro Leu His Arg Cys Ser Ala Gly Ser  
 20 25 30  
 Gln Pro Pro Gly Pro Val Pro Glu Gly Leu Ile Arg Ile Tyr Ser Met  
 35 40 45  
 Arg Phe Cys Pro Tyr Ser His Arg Thr Arg Leu Val Leu Lys Ala Lys  
 50 55 60  
 Asp Ile Arg His Glu Val Val Asn Ile Asn Leu Arg Asn Lys Pro Glu  
 65 70 75 80  
 Trp Tyr Tyr Thr Lys His Pro Phe Gly His Ile Pro Val Leu Glu Thr  
 85 90 95  
 Ser Gln Cys Gln Leu Ile Tyr Glu Ser Val Ile Ala Cys Glu Tyr Leu  
 100 105 110  
 Asp Asp Ala Tyr Pro Gly Arg Lys Leu Phe Pro Tyr Asp Pro Tyr Glu  
 115 120 125  
 Arg Ala Arg Gln Lys Met Leu Leu Glu Leu Phe Cys Lys Val Pro His  
 130 135 140  
 Leu Thr Lys Glu Cys Leu Val Ala Leu Arg Cys Gly Arg Glu Cys Thr  
 145 150 155 160  
 Asn Leu Lys Ala Ala Leu Arg Gln Glu Phe Ser Asn Leu Glu Glu Ile  
 165 170 175  
 Leu Glu Tyr Gln Asn Thr Thr Phe Phe Gly Gly Thr Cys Ile Ser Met  
 180 185 190  
 Ile Asp Tyr Leu Leu Trp Pro Trp Phe Glu Arg Leu Asp Val Tyr Gly  
 195 200 205  
 Ile Leu Asp Cys Val Ser His Thr Pro Ala Leu Arg Leu Trp Ile Ser  
 210 215 220

Ala	Met	Lys	Trp	Asp	Pro	Thr	Val	Cys	Ala	Leu	Leu	Met	Asp	Lys	Ser	
225				230					235				240			
Ile	Phe	Gln	Gly	Phe	Phe	Leu	Asn	Leu	Tyr	Phe	Gln	Asn	Asn	Pro	Asn	Ala
				245					250				255			
Phe	Asp	Phe	Gly	Leu	Cys											
				260					262							

<210> 1314  
<211> 173  
<212>Amino acid  
<213> Homo sapiens

<400> 1314															
Asn	Thr	Ala	Thr	Asn	Met	Thr	Gln	Pro	Asn	Ala	Gly	Thr	Arg	Lys	Tyr
1					5				10				15		
Ser	Val	Pro	Ala	Ile	Ser	Val	His	Thr	Ser	Ser	Ser	Phe	Ala	Tyr	
							20		25				30		
Asp	Arg	Glu	Phe	Leu	Arg	Thr	Leu	Pro	Gly	Phe	Leu	Ile	Val	Ala	Glu
				35				40				45			
Ile	Val	Leu	Gly	Leu	Leu	Val	Trp	Thr	Leu	Ile	Ala	Gly	Thr	Glu	Tyr
				50				55				60			
Phe	Arg	Val	Pro	Ala	Phe	Gly	Trp	Val	Met	Phe	Val	Ala	Val	Phe	Tyr
				65				70			75			80	
Trp	Val	Leu	Thr	Val	Phe	Phe	Leu	Ile	Ile	Tyr	Ile	Thr	Met	Thr	Tyr
				85					90				95		
Thr	Arg	Ile	Pro	Gln	Val	Pro	Trp	Thr	Val	Gly	Leu	Cys	Phe	Asn	
				100				105				110			
Gly	Ser	Ala	Phe	Val	Leu	Tyr	Leu	Ser	Ala	Ala	Val	Val	Asp	Ala	Ser
				115				120				125			
Ser	Val	Ser	Pro	Glu	Arg	Asp	Ser	His	Asn	Phe	Asn	Ser	Trp	Ala	Ala
				130				135				140			
Ser	Ser	Phe	Phe	Ala	Phe	Leu	Val	Thr	Ile	Cys	Tyr	Ala	Gly	Asn	Thr
				145				150			155			160	
Tyr	Phe	Ser	Phe	Ile	Ala	Trp	Arg	Ser	Arg	Thr	Ile	Gln			
				165					170			173			

<210> 1315  
<211> 259  
<212>Amino acid  
<213> Homo sapiens

<400> 1315															
Gly	Leu	Arg	Asp	Pro	Phe	Arg	Arg	Lys	Arg	Arg	Leu	Lys	Pro	Gln	Val
1					5				10				15		
Lys	Met	Ser	Asn	Tyr	Val	Asn	Asp	Met	Trp	Pro	Gly	Ser	Pro	Gln	Glu
					20				25				30		
Lys	Asp	Ser	Pro	Ser	Thr	Ser	Arg	Ser	Gly	Gly	Ser	Ser	Arg	Leu	Ser
					35			40				45			
Ser	Arg	Ser	Arg	Ser	Arg	Ser	Phe	Ser	Arg	Ser	Ser	Arg	Ser	His	Ser
					50			55				60			
Arg	Val	Ser	Ser	Arg	Phe	Ser	Ser	Arg	Ser	Arg	Ser	Lys	Ser	Arg	
				65				70			75			80	
Ser	Arg	Ser	Arg	Arg	Arg	His	Gln	Arg	Lys	Tyr	Arg	Arg	Tyr	Ser	Arg
				85					90				95		

Ser Tyr Ser Arg Ser Arg Ser Arg Ser Arg Ser Arg Arg Tyr Arg Glu  
           100                 105                 110  
 Arg Arg Tyr Gly Phe Thr Arg Arg Tyr Tyr Arg Ser Pro Ser Arg Tyr  
           115                 120                 125  
 Arg Ser Arg Ser Arg Ser Arg Ser Arg Gly Arg Ser Tyr Cys  
           130                 135                 140  
 Gly Arg Ala Tyr Ala Ile Ala Arg Gly Gln Arg Tyr Tyr Gly Phe Gly  
           145                 150                 155                 160  
 Arg Thr Val Tyr Pro Glu Glu His Ser Arg Trp Arg Asp Arg Ser Arg  
           165                 170                 175  
 Thr Arg Ser Arg Ser Arg Thr Pro Phe Arg Leu Ser Glu Lys Asp Arg  
           180                 185                 190  
 Met Glu Leu Leu Glu Ile Ala Lys Thr Asn Ala Ala Lys Ala Leu Gly  
           195                 200                 205  
 Thr Thr Asn Ile Asp Leu Pro Ala Ser Leu Arg Thr Val Pro Ser Ala  
           210                 215                 220  
 Lys Glu Thr Ser Arg Gly Ile Gly Val Ser Ser Asn Gly Ala Lys Pro  
           225                 230                 235                 240  
 Glu Val Ser Ile Ile Gly Leu Ser Glu Gln Asn Phe Gln Lys Ala Asn  
           245                 250                 255  
 Cys Gln Ile  
           259

<210> 1316  
 <211> 678  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1316  
 Ala Glu Gly Ser Thr Met Asp Leu Thr Lys Met Gly Met Ile Gln Leu  
   1                 5                 10                 15  
 Gln Asn Pro Asn His Pro Thr Gly Leu Leu Cys Lys Ala Asn Gln Met  
   20                 25                 30  
 Arg Ile Ala Gly Thr Leu Cys Asp Val Val Ile Met Val Asp Ser Gln  
   35                 40                 45  
 Glu Phe His Ala His Arg Thr Val Leu Ala Cys Thr Ser Lys Met Phe  
   50                 55                 60  
 Glu Ile Leu Phe His Arg Asn Ser Gln His Tyr Thr Leu Asp Phe Leu  
   65                 70                 75                 80  
 Ser Pro Lys Thr Phe Gln Gln Ile Leu Glu Tyr Ala Tyr Thr Ala Thr  
   85                 90                 95  
 Leu Gln Ala Lys Ala Glu Asp Leu Asp Asp Leu Leu Tyr Ala Ala Glu  
   100                 105                 110  
 Ile Leu Glu Ile Glu Tyr Leu Glu Glu Gln Cys Leu Lys Met Leu Glu  
   115                 120                 125  
 Thr Ile Gln Ala Ser Asp Asp Asn Asp Thr Glu Ala Thr Met Ala Asp  
   130                 135                 140  
 Gly Gly Ala Glu Glu Lys Lys Asp Arg Lys Ala Arg Tyr Leu Lys Asn  
   145                 150                 155                 160  
 Ile Phe Ile Ser Lys His Ser Ser Glu Glu Ser Gly Tyr Ala Ser Val  
   165                 170                 175  
 Ala Gly Gln Ser Leu Pro Gly Pro Met Val Asp Gln Ser Pro Ser Val  
   180                 185                 190  
 Ser Thr Ser Phe Gly Leu Ser Ala Met Ser Pro Thr Lys Ala Ala Val  
   195                 200                 205  
 Asp Ser Leu Met Thr Ile Gly Gln Ser Leu Leu Gln Gly Thr Leu Gln  
   210                 215                 220  
 Pro Pro Ala Gly Pro Glu Glu Pro Thr Leu Ala Gly Gly Gly Arg His  
   225                 230                 235                 240

Pro Gly Val Ala Glu Val Lys Thr Glu Met Met Gln Val Asp Glu Val  
                   245                  250                  255  
 Pro Ser Gln Asp Ser Pro Gly Ala Ala Glu Ser Ser Ile Ser Gly Gly  
                   260                  265                  270  
 Met Gly Asp Lys Val Glu Glu Arg Gly Lys Glu Gly Pro Gly Thr Pro  
                   275                  280                  285  
 Thr Arg Ser Ser Val Ile Thr Ser Ala Arg Glu Leu His Tyr Gly Arg  
                   290                  295                  300  
 Glu Glu Ser Ala Glu Gln Val Pro Pro Pro Ala Glu Ala Gly Gln Ala  
                   305                  310                  315                  320  
 Pro Thr Gly Arg Pro Glu His Pro Ala Pro Pro Pro Glu Lys His Leu  
                   325                  330                  335  
 Gly Ile Tyr Ser Val Leu Pro Asn His Lys Ala Asp Ala Val Leu Ser  
                   340                  345                  350  
 Met Pro Ser Ser Val Thr Ser Gly Leu His Val Gln Pro Ala Leu Ala  
                   355                  360                  365  
 Val Ser Met Asp Phe Ser Thr Tyr Gly Gly Leu Leu Pro Gln Gly Phe  
                   370                  375                  380  
 Ile Gln Arg Glu Leu Phe Ser Lys Leu Gly Glu Leu Ala Val Gly Met  
                   385                  390                  395                  400  
 Lys Ser Glu Ser Arg Thr Ile Gly Glu Gln Cys Ser Val Cys Gly Val  
                   405                  410                  415  
 Glu Leu Pro Asp Asn Glu Ala Val Glu Gln His Arg Lys Leu His Ser  
                   420                  425                  430  
 Gly Met Lys Thr Tyr Gly Cys Glu Leu Cys Gly Lys Arg Phe Leu Asp  
                   435                  440                  445  
 Ser Leu Arg Leu Arg Met His Leu Leu Ala His Ser Ala Gly Ala Lys  
                   450                  455                  460  
 Ala Phe Val Cys Asp Gln Cys Gly Ala Gln Phe Ser Lys Glu Asp Ala  
                   465                  470                  475                  480  
 Leu Glu Thr His Arg Gln Thr His Thr Gly Thr Asp Met Ala Val Phe  
                   485                  490                  495  
 Cys Leu Leu Cys Gly Lys Arg Phe Gln Ala Gln Ser Ala Leu Gln Gln  
                   500                  505                  510  
 His Met Glu Val His Ala Gly Val Arg Ser Tyr Ile Cys Ser Glu Cys  
                   515                  520                  525  
 Asn Arg Thr Phe Pro Ser His Thr Ala Leu Lys Arg His Leu Arg Ser  
                   530                  535                  540  
 His Thr Gly Asp His Pro Tyr Glu Cys Glu Phe Cys Gly Ser Cys Phe  
                   545                  550                  555                  560  
 Arg Asp Glu Ser Thr Leu Lys Ser His Lys Arg Ile His Thr Gly Glu  
                   565                  570                  575  
 Lys Pro Tyr Glu Cys Asn Gly Cys Gly Lys Lys Phe Ser Leu Lys His  
                   580                  585                  590  
 Gln Leu Glu Thr His Tyr Arg Val His Thr Gly Glu Lys Pro Phe Glu  
                   595                  600                  605  
 Cys Lys Leu Cys His Gln Arg Ser Arg Asp Tyr Ser Ala Met Ile Lys  
                   610                  615                  620  
 His Leu Arg Thr His Asn Gly Ala Ser Pro Tyr Gln Cys Thr Ile Cys  
                   625                  630                  635                  640  
 Thr Glu Tyr Cys Pro Ser Leu Ser Ser Met Gln Lys His Met Lys Gly  
                   645                  650                  655  
 His Lys Pro Glu Glu Ile Pro Pro Asp Trp Arg Ile Glu Lys Thr Tyr  
                   660                  665                  670  
 Leu Tyr Leu Cys Tyr Val  
                   675                  678

<210> 1317  
 <211> 74  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1317  
 Ile Trp Glu Ala Pro Thr Leu Ile Phe Thr Leu Ala Gly Gly Arg Ala  
 1 5 10 15  
 Leu Gly His Pro Pro Met Gln Lys Gly Ser Gln Gly Cys Ala Leu Pro  
 20 25 30  
 His Pro Leu Pro Gly Ala Ser Leu Pro Ala Gln Pro Gly Pro Ala Asp  
 35 40 45  
 His Arg Gly Trp Glu Cys Arg Ile Gly Gly Glu Ala Ser Val Phe Thr  
 50 55 60  
 His Leu Phe Cys Leu Pro His Ser Pro Thr  
 65 70 74

<210> 1318  
 <211> 351  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1318  
 Ala Ser Gly Ser Pro Ala Pro Ser Ser Ser Ala Met Ala Ala Ala  
 1 5 10 15  
 Cys Gly Pro Gly Ala Ala Gly Tyr Cys Leu Leu Leu Gly Leu His Leu  
 20 25 30  
 Phe Leu Leu Thr Ala Gly Pro Ala Leu Gly Trp Asn Asp Pro Asp Arg  
 35 40 45  
 Met Leu Leu Arg Asp Val Lys Ala Leu Thr Leu His Tyr Asp Arg Tyr  
 50 55 60  
 Thr Thr Ser Arg Arg Leu Asp Pro Ile Pro Gln Leu Lys Cys Val Gly  
 65 70 75 80  
 Gly Thr Ala Gly Cys Asp Ser Tyr Thr Pro Lys Val Ile Gln Cys Gln  
 85 90 95  
 Asn Lys Gly Trp Asp Gly Tyr Asp Val Gln Trp Glu Cys Lys Thr Asp  
 100 105 110  
 Leu Asp Ile Ala Tyr Lys Phe Gly Lys Thr Val Val Ser Cys Glu Gly  
 115 120 125  
 Tyr Glu Ser Ser Glu Asp Gln Tyr Val Leu Arg Gly Ser Cys Gly Leu  
 130 135 140  
 Glu Tyr Asn Leu Asp Tyr Thr Glu Leu Gly Leu Gln Lys Leu Lys Glu  
 145 150 155 160  
 Ser Gly Lys Gln His Gly Phe Ala Ser Phe Ser Asp Tyr Tyr Lys  
 165 170 175  
 Trp Ser Ser Ala Asp Ser Cys Asn Met Ser Gly Leu Ile Thr Ile Val  
 180 185 190  
 Val Leu Leu Gly Ile Ala Phe Val Val Tyr Lys Leu Phe Leu Ser Asp  
 195 200 205  
 Gly Gln Tyr Ser Pro Pro Pro Tyr Ser Gln Tyr Pro Pro Phe Ser His  
 210 215 220  
 Arg Tyr Gln Arg Phe Thr Asn Ser Ala Gly Pro Pro Pro Pro Gly Phe  
 225 230 235 240  
 Lys Ser Glu Phe Thr Gly Pro Gln Asn Thr Gly His Gly Ala Thr Ser  
 245 250 255  
 Gly Phe Gly Ser Ala Phe Thr Gly Gln Gln Gly Tyr Glu Asn Ser Gly  
 260 265 270  
 Pro Gly Phe Trp Thr Gly Leu Gly Thr Gly Gly Ile Leu Gly Tyr Leu  
 275 280 285  
 Phe Gly Ser Asn Arg Ala Ala Thr Pro Phe Ser Asp Ser Trp Tyr Tyr  
 290 295 300

Pro Ser Tyr Pro Pro Ser Tyr Pro Gly Thr Trp Asn Arg Ala Tyr Ser			
305	310	315	320
Pro Leu His Gly Gly Ser Gly Ser Tyr Ser Val Cys Ser Asn Ser Asp			
325	330	335	
Thr Lys Thr Arg Thr Ala Ser Gly Tyr Gly Gly Thr Arg Arg Arg			
340	345	350	351

<210> 1319  
<211> 310  
<212>Amino acid  
<213> Homo sapiens

<400> 1319			
Gly Arg Cys Gly Ala Met Ala Ala Gly Leu Ala Arg Leu Leu Leu			
1	5	10	15
Leu Gly Leu Ser Ala Gly Gly Pro Ala Pro Ala Gly Ala Ala Lys Met			
20	25	30	
Lys Val Val Glu Pro Asn Ala Phe Gly Val Asn Asn Pro Phe Leu			
35	40	45	
Pro Gln Ala Ser Arg Leu Gln Ala Lys Arg Asp Pro Ser Pro Val Ser			
50	55	60	
Gly Pro Val His Leu Phe Arg Leu Ser Gly Lys Cys Phe Ser Leu Val			
65	70	75	80
Glu Ser Thr Tyr Lys Tyr Glu Phe Cys Pro Phe His Asn Val Thr Gln			
85	90	95	
His Glu Gln Thr Phe Arg Trp Asn Ala Tyr Ser Gly Ile Leu Gly Ile			
100	105	110	
Trp His Glu Trp Glu Ile Ala Asn Asn Thr Phe Thr Gly Met Trp Met			
115	120	125	
Arg Asp Gly Asp Ala Cys Arg Ser Arg Ser Arg Gln Ser Lys Val Glu			
130	135	140	
Leu Ala Cys Gly Lys Ser Asn Arg Leu Ala His Val Ser Glu Pro Ser			
145	150	155	160
Thr Cys Val Tyr Ala Leu Thr Phe Glu Thr Pro Leu Val Cys His Pro			
165	170	175	
His Ala Leu Leu Val Tyr Pro Thr Leu Pro Glu Ala Leu Gln Arg Gln			
180	185	190	
Trp Asp Gln Val Glu Gln Asp Leu Ala Asp Glu Leu Ile Thr Pro Gln			
195	200	205	
Gly His Glu Lys Leu Leu Arg Thr Leu Phe Glu Asp Ala Gly Tyr Leu			
210	215	220	
Lys Thr Pro Glu Glu Asn Glu Pro Thr Gln Leu Glu Gly Gly Pro Asp			
225	230	235	240
Ser Leu Gly Phe Glu Thr Leu Glu Asn Cys Arg Lys Ala His Lys Glu			
245	250	255	
Leu Ser Lys Glu Ile Lys Arg Leu Lys Gly Leu Leu Thr Gln His Gly			
260	265	270	
Ile Pro Tyr Thr Arg Pro Thr Glu Thr Ser Asn Leu Glu His Leu Gly			
275	280	285	
His Glu Thr Pro Arg Ala Lys Ser Pro Glu Gln Leu Arg Gly Asp Pro			
290	295	300	
Gly Leu Arg Gly Ser Leu			
305	310		

<210> 1320  
<211> 313  
<212>Amino acid  
<213> Homo sapiens

<400> 1320  
Asn Ser Phe Trp Ser Val Leu Phe Leu Val Gln Glu Glu Thr Glu Val  
1               5               10               15  
Ala Arg Cys Asn Ala Gln His Arg Leu Arg Gln Ser Arg Asp Ser Lys  
20               25               30  
Pro Asp Pro Ser Phe Arg Ser Gln Pro Ile Asp Ser Ser Ile Ser Phe  
35               40               45  
Ala Gly Ser Asp Ile Gln Pro Leu Phe Ser Phe Ala Ser Val Asp Gly  
50               55               60  
Thr Gln Val Gly Glu Ala Glu Glu Trp Ala Gly Pro Trp Ala Glu Ala  
65               70               75               80  
Thr Leu Leu Pro Gly Pro Gly Asn Arg Trp Pro Pro Arg Ala Gly Leu  
85               90               95  
Ser Gly Asn Trp Leu Glu Asp Gly Asp Trp Pro Ser Leu Pro Glu  
100              105              110  
Val Val Gly Phe Val Ser Glu Arg Glu Leu Phe Arg Asp Ala Leu Gly  
115              120              125  
Ala Gly Cys Arg Ile Leu Leu Ile Cys Glu Met Gln Leu Thr His Gln  
130              135              140  
Leu Asp Leu Phe Pro Glu Cys Arg Val Thr Leu Leu Leu Phe Lys Asp  
145              150              155              160  
Val Lys Asn Ala Gly Asp Leu Arg Arg Lys Ala Met Glu Gly Thr Ile  
165              170              175  
Asp Gly Ser Leu Ile Asn Pro Thr Val Ile Val Asp Pro Phe Gln Ile  
180              185              190  
Leu Val Ala Ala Asn Lys Ala Val His Leu Tyr Lys Leu Gly Lys Met  
195              200              205  
Lys Thr Arg Thr Leu Ser Thr Glu Ile Ile Phe Asn Leu Ser Pro Asn  
210              215              220  
Asn Asn Ile Ser Glu Ala Leu Lys Lys Phe Gly Ile Ser Ala Asn Asp  
225              230              235              240  
Thr Ser Ile Leu Ile Val Tyr Ile Glu Glu Gly Glu Lys Gln Ile Asn  
245              250              255  
Gln Glu Tyr Leu Ile Ser Gln Val Glu Gly His Gln Val Ser Leu Lys  
260              265              270  
Asn Leu Pro Glu Ile Met Asn Ile Thr Glu Val Lys Lys Ile Tyr Lys  
275              280              285  
Leu Ser Ser Gln Glu Glu Ser Ile Gly Thr Leu Leu Asp Ala Ile Ile  
290              295              300  
Cys Arg Met Ser Thr Lys Asp Val Leu  
305              310              313

<210> 1321  
<211> 891  
<212>Amino acid  
<213> Homo sapiens

<400> 1321  
Gln Arg Ser Trp Ala Gly Pro Gly Ala Gly Pro Glu Ala Gly Thr Arg  
1               5               10               15  
Pro Pro Ala Arg Gly Arg Arg Arg Gln Pro Gly Asn Val Asp Pro Arg  
20              25              30  
Arg Arg Ala Pro Gln Leu Arg Ser Gln Met Gln Val Ala Met Ala Arg  
35              40              45

Ala Thr Thr Ala Thr Gly Asn Arg Leu Trp Pro Gly Leu Leu Ile Met  
   50                         55                         60  
 Leu Gly Ser Leu Cys His Arg Gly Ser Pro Cys Gly Leu Ser Thr His  
   65                         70                         75                         80  
 Ile Glu Ile Gly His Arg Ala Leu Glu Phe Leu Gln Leu His Asn Gly  
   85                         90                         95  
 Arg Val Asn Tyr Arg Glu Leu Leu Glu His Gln Asp Ala Tyr Gln  
   100                         105                         110  
 Ala Gly Ile Val Phe Pro Asp Cys Phe Tyr Pro Ser Ile Cys Lys Gly  
   115                         120                         125  
 Gly Lys Phe His Asp Val Ser Glu Ser Thr His Trp Thr Pro Phe Leu  
   130                         135                         140  
 Asn Ala Ser Val His Tyr Ile Arg Glu Asn Tyr Pro Leu Pro Trp Glu  
   145                         150                         155                         160  
 Lys Asp Thr Glu Lys Leu Val Ala Phe Leu Phe Gly Ile Thr Ser His  
   165                         170                         175  
 Met Ala Ala Asp Val Ser Trp His Ser Leu Gly Leu Glu Gln Gly Phe  
   180                         185                         190  
 Leu Arg Thr Met Gly Ala Ile Asp Phe His Gly Ser Tyr Ser Glu Ala  
   195                         200                         205  
 His Ser Ala Gly Asp Phe Gly Gly Asp Val Leu Ser Gln Phe Glu Phe  
   210                         215                         220  
 Asn Phe Asn Tyr Leu Ala Arg Arg Trp Tyr Val Pro Val Lys Asp Leu  
   225                         230                         235                         240  
 Leu Gly Ile Tyr Glu Lys Leu Tyr Gly Arg Lys Val Ile Thr Glu Asn  
   245                         250                         255  
 Val Ile Val Asp Cys Ser His Ile Gln Phe Leu Glu Met Tyr Gly Glu  
   260                         265                         270  
 Met Leu Ala Val Ser Lys Leu Tyr Pro Thr Tyr Ser Thr Lys Ser Pro  
   275                         280                         285  
 Phe Leu Val Glu Gln Phe Gln Glu Tyr Phe Leu Gly Gly Leu Asp Asp  
   290                         295                         300  
 Met Ala Phe Trp Ser Thr Asn Ile Tyr His Leu Thr Ile Phe Met Leu  
   305                         310                         315                         320  
 Glu Asn Gly Thr Ser Asp Cys Asn Leu Pro Glu Asn Pro Leu Phe Ile  
   325                         330                         335  
 Ala Cys Gly Gly Gln Gln Asn His Thr Gln Gly Ser Lys Met Gln Lys  
   340                         345                         350  
 Asn Asp Phe His Arg Asn Leu Thr Thr Ser Leu Thr Glu Ser Val Asp  
   355                         360                         365  
 Arg Asn Ile Asn Tyr Thr Glu Arg Gly Val Phe Phe Ser Val Asn Ser  
   370                         375                         380  
 Trp Thr Pro Asp Ser Met Ser Phe Ile Tyr Lys Ala Leu Glu Arg Asn  
   385                         390                         395                         400  
 Ile Arg Thr Met Phe Ile Gly Gly Ser Gln Leu Ser Gln Lys His Val  
   405                         410                         415  
 Ser Ser Pro Leu Ala Ser Tyr Phe Leu Ser Phe Pro Tyr Ala Arg Leu  
   420                         425                         430  
 Gly Trp Ala Met Thr Ser Ala Asp Leu Asn Gln Asp Gly His Gly Asp  
   435                         440                         445  
 Leu Val Val Gly Ala Pro Gly Tyr Ser Arg Pro Gly His Ile His Ile  
   450                         455                         460  
 Gly Arg Val Tyr Leu Ile Tyr Gly Asn Asp Leu Gly Leu Pro Pro Val  
   465                         470                         475                         480  
 Asp Leu Asp Leu Asp Lys Glu Ala His Arg Ile Leu Glu Gly Phe Gln  
   485                         490                         495  
 Pro Ser Gly Arg Phe Gly Ser Ala Leu Ala Val Leu Asp Phe Asn Val  
   500                         505                         510  
 Asp Gly Val Pro Asp Leu Ala Val Gly Ala Pro Ser Val Gly Ser Glu  
   515                         520                         525  
 Gln Leu Thr Tyr Lys Gly Ala Val Tyr Val Tyr Phe Gly Ser Lys Gln  
   530                         535                         540  
 Gly Gly Met Ser Ser Pro Asn Ile Thr Ile Ser Cys Gln Asp Ile  
   545                         550                         555                         560

Tyr Cys Asn Leu Gly Trp Thr Leu Leu Ala Ala Asp Val Asn Gly Asp  
                   565                         570                         575  
 Ser Glu Pro Asp Leu Val Ile Gly Ser Pro Phe Ala Pro Gly Gly Gly  
                   580                         585                         590  
 Lys Gln Lys Gly Ile Val Ala Ala Phe Tyr Ser Gly Pro Ser Leu Ser  
                   595                         600                         605  
 Asp Lys Glu Lys Leu Asn Val Glu Ala Ala Asn Trp Thr Val Arg Gly  
                   610                         615                         620  
 Glu Glu Asp Phe Ser Trp Phe Gly Tyr Ser Leu His Gly Val Thr Val  
                   625                         630                         635                         640  
 Asp Asn Arg Thr Leu Leu Leu Val Gly Ser Pro Thr Trp Lys Asn Ala  
                   645                         650                         655  
 Ser Arg Leu Gly His Leu Leu His Ile Arg Asp Glu Lys Lys Ser Leu  
                   660                         665                         670  
 Gly Arg Val Tyr Gly Tyr Phe Pro Pro Asn Gly Gln Ser Trp Phe Thr  
                   675                         680                         685  
 Ile Ser Gly Asp Lys Ala Met Gly Lys Leu Gly Thr Ser Leu Ser Ser  
                   690                         695                         700  
 Gly His Val Leu Met Asn Gly Thr Leu Lys Gln Val Leu Leu Val Gly  
                   705                         710                         715                         720  
 Ala Pro Thr Tyr Asp Asp Val Ser Lys Val Ala Phe Leu Thr Val Thr  
                   725                         730                         735  
 Leu His Gln Gly Gly Ala Thr Arg Met Tyr Ala Leu Thr Ser Asp Ala  
                   740                         745                         750  
 Gln Pro Leu Leu Leu Ser Thr Phe Ser Gly Asp Arg Arg Phe Ser Arg  
                   755                         760                         765  
 Phe Gly Gly Val Leu His Leu Ser Asp Leu Asp Asp Asp Gly Leu Asp  
                   770                         775                         780  
 Glu Ile Ile Met Ala Ala Pro Leu Arg Ile Ala Asp Val Thr Ser Gly  
                   785                         790                         795                         800  
 Leu Ile Gly Gly Glu Asp Gly Arg Val Tyr Val Tyr Asn Gly Lys Glu  
                   805                         810                         815  
 Thr Thr Leu Gly Asp Met Thr Gly Lys Cys Lys Ser Trp Ile Thr Pro  
                   820                         825                         830  
 Cys Pro Glu Glu Lys Ala Gln Tyr Val Leu Ile Ser Pro Glu Ala Ser  
                   835                         840                         845  
 Ser Arg Phe Gly Ser Ser Leu Ile Thr Val Arg Ser Lys Ala Lys Asn  
                   850                         855                         860  
 Gln Val Val Ile Ala Ala Gly Arg Ser Ser Leu Gly Ala Arg Leu Ser  
                   865                         870                         875                         880  
 Gly Ala Leu His Val Tyr Ser Leu Gly Ser Asp  
                   885                         890                         891

&lt;210&gt; 1322

&lt;211&gt; 119

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1322

Ser Leu Arg Asn Ser Ala Arg Gly Leu Lys Met Ala Ala Ser Ala Ala  
                   1                         5                         10                         15  
 Arg Gly Ala Ala Ala Leu Arg Arg Ser Ile Asn Gln Pro Val Ala Phe  
                   20                         25                         30  
 Val Arg Arg Ile Pro Trp Thr Ala Ala Ser Ser Gln Leu Lys Glu His  
                   35                         40                         45  
 Phe Ala Gln Phe Gly His Val Arg Arg Cys Ile Leu Pro Phe Asp Lys  
                   50                         55                         60  
 Glu Thr Gly Phe His Arg Gly Leu Gly Trp Val Gln Phe Ser Ser Glu  
                   65                         70                         75                         80

Glu	Gly	Leu	Arg	Asn	Ala	Leu	Gln	Gln	Glu	Asn	His	Ile	Ile	Asp	Gly
							85		90				95		
Val	Lys	Val	Val	His	Thr	Arg	Arg	Pro	Lys	Leu	Pro	Gln	Thr	Ser	
							100		105				110		
Asp	Asp	Glu	Lys	Lys	Asp	Phe									
							115		119						

<210> 1323  
<211> 257  
<212>Amino acid  
<213> Homo sapiens

<400> 1323															
Gly	Ser	Ser	Asn	Ile	His	Ser	Ala	Ser	Thr	His	Gly	Phe	Cys	His	Trp
1															15
Phe	Ser	Ser	Pro	Ser	Thr	Leu	Lys	Arg	Gln	Gln	Ala	Ile	Arg	Phe	
															20
Gln	Lys	Ile	Arg	Arg	Gln	Met	Glu	Ala	Pro	Gly	Ala	Pro	Pro	Arg	Thr
															35
Leu	Thr	Trp	Glu	Ala	Met	Glu	Gln	Ile	Arg	Tyr	Leu	His	Glu	Glu	Phe
															50
Pro	Glu	Ser	Trp	Ser	Val	Pro	Arg	Leu	Ala	Glu	Gly	Phe	Asp	Val	Ser
															65
Thr	Asp	Val	Ile	Arg	Arg	Val	Leu	Lys	Ser	Lys	Phe	Leu	Pro	Thr	Leu
															85
Glu	Gln	Lys	Leu	Lys	Gln	Asp	Gln	Lys	Val	Leu	Lys	Lys	Ala	Gly	Leu
															100
Ala	His	Ser	Leu	Gln	His	Leu	Arg	Gly	Ser	Gly	Asn	Thr	Ser	Lys	Leu
															115
Leu	Pro	Ala	Gly	His	Ser	Val	Ser	Gly	Ser	Leu	Leu	Met	Pro	Gly	His
															130
Glu	Ala	Ser	Ser	Lys	Asp	Pro	Asn	His	Ser	Thr	Ala	Leu	Lys	Val	Ile
															145
Glu	Ser	Asp	Thr	His	Arg	Thr	Asn	Thr	Pro	Arg	Arg	Arg	Lys	Gly	Arg
															165
Asn	Lys	Glu	Ile	Gln	Asp	Leu	Glu	Glu	Ser	Phe	Val	Pro	Val	Ala	Ala
															180
Pro	Leu	Gly	His	Pro	Arg	Glu	Leu	Gln	Lys	Tyr	Ser	Ser	Asp	Ser	Glu
															195
Ser	Pro	Arg	Gly	Thr	Gly	Ser	Gly	Ala	Leu	Pro	Ser	Gly	Gln	Lys	Leu
															210
Glu	Glu	Leu	Lys	Ala	Glu	Glu	Pro	Asp	Asn	Phe	Ser	Ser	Lys	Val	Val
															225
Gln	Arg	Gly	Arg	Glu	Phe	Phe	Asp	Ser	Asn	Gly	Asn	Phe	Leu	Tyr	Arg
															245
Ile															257

<210> 1324  
<211> 273  
<212>Amino acid  
<213> Homo sapiens

<400> 1324

Glu Thr Arg Val Lys Thr Ser Leu Glu Leu Leu Arg Thr Gln Leu Glu  
 1               5                   10                   15  
 Pro Thr Gly Thr Val Gly Asn Thr Ile Met Thr Ser Gln Pro Val Pro  
 20               25                   30  
 Asn Glu Thr Ile Ile Val Leu Pro Ser Asn Val Ile Asn Phe Ser Gln  
 35               40                   45  
 Ala Glu Lys Pro Glu Pro Thr Asn Gln Gly Gln Asp Ser Leu Lys Lys  
 50               55                   60  
 His Leu His Ala Glu Ile Lys Val Ile Gly Thr Ile Gln Ile Leu Cys  
 65               70                   75                   80  
 Gly Met Met Val Leu Ser Leu Gly Ile Ile Leu Ala Ser Ala Ser Phe  
 85               90                   95  
 Ser Pro Asn Phe Thr Gln Val Thr Ser Thr Leu Leu Asn Ser Ala Tyr  
 100              105                   110  
 Pro Phe Ile Gly Pro Phe Phe Phe Ile Ile Ser Gly Ser Leu Ser Ile  
 115              120                   125  
 Ala Thr Glu Lys Arg Leu Thr Lys Leu Leu Val His Ser Ser Leu Val  
 130              135                   140  
 Gly Ser Ile Leu Ser Ala Leu Ser Ala Leu Val Gly Phe Ile Ile Leu  
 145              150                   155                   160  
 Ser Val Lys Gln Ala Thr Leu Asn Pro Ala Ser Leu Gln Cys Glu Leu  
 165              170                   175  
 Asp Lys Asn Asn Ile Pro Thr Arg Ser Tyr Val Ser Tyr Phe Tyr His  
 180              185                   190  
 Asp Ser Leu Tyr Thr Thr Asp Cys Tyr Thr Ala Lys Ala Ser Leu Ala  
 195              200                   205  
 Gly Thr Leu Ser Leu Met Leu Ile Cys Thr Leu Leu Glu Phe Cys Leu  
 210              215                   220  
 Ala Val Leu Thr Ala Val Leu Arg Trp Lys Gln Ala Tyr Ser Asp Phe  
 225              230                   235                   240  
 Pro Gly Ser Val Leu Phe Leu Pro His Ser Tyr Ile Gly Asn Ser Gly  
 245              250                   255  
 Met Ser Ser Lys Met Thr His Asp Cys Gly Tyr Glu Glu Leu Leu Thr  
 260              265                   270  
 Ser  
 273

<210> 1325  
 <211> 477  
 <212> Amino acid  
 <213> Homo sapiens

<400> 1325  
 Glu Met Val Gly Ala Met Trp Lys Val Ile Val Ser Leu Val Leu Leu  
 1               5                   10                   15  
 Met Pro Gly Pro Cys Asp Gly Leu Phe Arg Ser Leu Tyr Arg Ser Val  
 20              25                   30  
 Ser Met Pro Pro Lys Gly Asp Ser Gly Gln Pro Leu Phe Leu Thr Pro  
 35              40                   45  
 Tyr Ile Glu Ala Gly Lys Ile Glu Lys Gly Arg Glu Leu Ser Leu Val  
 50              55                   60  
 Gly Pro Phe Pro Gly Leu Asn Met Lys Ser Tyr Ala Gly Phe Leu Thr  
 65              70                   75                   80  
 Val Asn Lys Thr Tyr Asn Ser Asn Leu Phe Phe Trp Phe, Phe Pro Ala  
 85              90                   95  
 Gln Ile Gln Pro Glu Asp Ala Pro Val Val Leu Trp Leu Gln Gly Gly  
 100             105                   110  
 Pro Gly Gly Ser Ser Met Phe Gly Leu Phe Val Glu His Gly Pro Tyr  
 115             120                   125

Val	Val	Thr	Ser	Asn	Met	Thr	Leu	Arg	Asp	Arg	Asp	Phe	Pro	Trp	Thr
130							135							140	
Thr	Thr	Leu	Ser	Met	Leu	Tyr	Ile	Asp	Asn	Pro	Val	Gly	Thr	Gly	Phe
145							150					155			160
Ser	Phe	Thr	Asp	Asp	Thr	His	Gly	Tyr	Ala	Val	Asn	Glu	Asp	Asp	Val
							165				170			175	
Ala	Arg	Asp	Leu	Tyr	Ser	Ala	Leu	Ile	Gln	Phe	Gln	Ile	Phe	Pro	
							180			185			190		
Glu	Tyr	Lys	Asn	Asn	Asp	Phe	Tyr	Val	Thr	Gly	Glu	Ser	Tyr	Ala	Gly
							195			200			205		
Lys	Tyr	Val	Pro	Ala	Ile	Ala	His	Leu	Ile	His	Ser	Leu	Asn	Pro	Val
							210			215			220		
Arg	Glu	Val	Lys	Ile	Asn	Leu	Asn	Gly	Ile	Ala	Ile	Gly	Asp	Gly	Tyr
							225			230			235		240
Ser	Asp	Pro	Glu	Ser	Ile	Ile	Gly	Gly	Tyr	Ala	Glu	Phe	Leu	Tyr	Gln
							245				250			255	
Ile	Gly	Leu	Leu	Asp	Glu	Lys	Gln	Lys	Lys	Tyr	Phe	Gln	Lys	Gln	Cys
							260			265			270		
His	Glu	Cys	Ile	Glu	His	Ile	Arg	Lys	Gln	Asn	Trp	Phe	Glu	Ala	Phe
							275			280			285		
Glu	Ile	Leu	Asp	Lys	Leu	Leu	Asp	Gly	Asp	Leu	Thr	Ser	Asp	Pro	Ser
							290			295			300		
Tyr	Phe	Gln	Asn	Val	Thr	Gly	Cys	Ser	Asn	Tyr	Tyr	Asn	Phe	Leu	Arg
							305			310			315		320
Cys	Thr	Glu	Pro	Glu	Asp	Gln	Leu	Tyr	Tyr	Val	Lys	Phe	Leu	Ser	Leu
							325				330			335	
Pro	Glu	Val	Arg	Gln	Ala	Ile	His	Val	Gly	Asn	Gln	Thr	Phe	Asn	Asp
							340			345			350		
Gly	Thr	Ile	Val	Glu	Lys	Tyr	Leu	Arg	Glu	Asp	Thr	Val	Gln	Ser	Val
							355			360			365		
Lys	Pro	Trp	Leu	Thr	Glu	Ile	Met	Asn	Asn	Tyr	Lys	Val	Leu	Ile	Tyr
							370			375			380		
Asn	Gly	Gln	Leu	Asp	Ile	Ile	Val	Ala	Ala	Leu	Thr	Glu	Arg	Ser	
							385			390			395		400
Leu	Met	Gly	Met	Asp	Trp	Lys	Gly	Ser	Gln	Glu	Tyr	Lys	Lys	Ala	Glu
							405			410			415		
Lys	Lys	Val	*Trp	Lys	Ile	Phe	Lys	Ser	Asp	Ser	Glu	Val	Ala	Gly	Tyr
							420			425			430		
Ile	Arg	Gln	'Ala	Gly	Asp	Phe	His	Gln	Val	Ile	Ile	Arg	Gly	Gly	Gly
							435			440			445		
His	Ile	Leu	Pro	Tyr	Asp	Gln	Pro	Leu	Arg	Ala	Phe	Asp	Met	Ile	Asn
							450			455			460		
Arg	Phe	Ile	Tyr	Gly	Lys	Gly	Trp	Asp	Pro	Tyr	Val	Gly			
							465			470			475		477

<210> 1326  
 <211> 160  
 <212>Amino acid  
 <213> Homo sapiens

Arg	Asp	Glu	Arg	Ala	Lys	Val	Pro	Phe	Arg	Ser	Thr	Glu	Gly	Gly	Arg
1							5			10			15		
Arg	Arg	Arg	Arg	Arg	Met	Glu	Ala	Val	Val	Phe	Val	Phe	Ser	Leu	Leu
							20			25			30		
Asp	Cys	Cys	Ala	Leu	Ile	Phe	Leu	Ser	Val	Tyr	Phe	Ile	Ile	Thr	Leu
							35			40			45		
Ser	Asp	Leu	Glu	Cys	Asp	Tyr	Ile	Asn	Ala	Arg	Ser	Cys	Cys	Ser	Lys
							50			55			60		

Leu	Asn	Lys	Trp	Val	Ile	Pro	Glu	Leu	Ile	Gly	His	Thr	Ile	Val	Thr
65				70					75						80
Val	Leu	Leu	Leu	Met	Ser	Leu	His	Trp	Phe	Ile	Phe	Leu	Leu	Asn	Leu
				85					90					95	
Pro	Val	Ala	Thr	Trp	Asn	Ile	Tyr	Arg	Tyr	Ile	Met	Val	Pro	Ser	Gly
				100				105				110			
Asn	Met	Gly	Val	Phe	Asp	Pro	Thr	Glu	Ile	His	Asn	Arg	Gly	Gln	Leu
				115				120				125			
Lys	Ser	His	Met	Lys	Glu	Ala	Met	Ile	Lys	Leu	Gly	Phe	His	Leu	Leu
				130				135			140				
Cys	Phe	Phe	Met	Tyr	Leu	Tyr	Ser	Met	Ile	Leu	Ala	Leu	Ile	Asn	Asp
				145				150			155			160	

<210> 1327  
<211> 131  
<212>Amino acid  
<213> Homo sapiens

<400> 1327															
Gln	Ser	Pro	Gly	His	Gly	Ala	Pro	Cys	Gln	Leu	Ser	Ser	Ser	His	Ser
1					5					10				15	
Arg	Ser	Asn	Arg	Leu	Leu	Ser	Pro	Met	Ala	Arg	Ala	Thr	Leu	Ser	Ala
					20				25			30			
Ala	Pro	Ser	Asn	Pro	Arg	Leu	Leu	Arg	Val	Ala	Leu	Leu	Leu	Leu	Leu
					35				40			45			
Leu	Val	Ala	Ala	Ser	Arg	Arg	Ala	Ala	Gly	Ala	Pro	Leu	Ala	Thr	Glu
				50				55			60				
Leu	Arg	Cys	Gln	Cys	Leu	Gln	Thr	Leu	Gln	Gly	Ile	His	Leu	Lys	Asn
				65				70			75			80	
Ile	Gln	Ser	Val	Lys	Val	Lys	Ser	Pro	Gly	Pro	His	Cys	Ala	Gln	Thr
				85				90			95				
Glu	Val	Ile	Ala	Thr	Leu	Lys	Asn	Gly	Gln	Lys	Ala	Cys	Leu	Asn	Pro
				100				105			110				
Ala	Ser	Pro	Met	Val	Lys	Lys	Ile	Ile	Glu	Lys	Met	Leu	Lys	Asn	Gly
				115				120			125				
Lys	Ser	Asn													
				130				131							

<210> 1328  
<211> 44  
<212>Amino acid  
<213> Homo sapiens

<400> 1328															
His	Pro	Leu	Ser	Leu	Val	Phe	Leu	Ala	Leu	Asn	Thr	Gly	Lys	Glu	Lys
1					5				10			15			
Ser	His	Pro	Gly	Gly	Gly	Gly	Gl	Arg	Pro	Gly	Leu	Ala	Gly	Gln	Gly
					20				25			30			
Glu	Pro	Asp	His	Pro	Ala	Gly	Ala	Arg	Asp	Gly	Arg				
					35				40			44			

<210> 1329  
<211> 525  
<212>Amino acid  
<213> Homo sapiens

<400> 1329  
Cys Thr Pro Val Ala Arg Ser Met Ala Thr Thr Ala Thr Cys Thr Arg  
1               5               10               15  
Phe Thr Asp Asp Tyr Gln Leu Phe Glu Glu Leu Gly Lys Gly Ala Phe  
20               25               30  
Ser Val Val Arg Arg Cys Val Lys Lys Thr Ser Thr Gln Glu Tyr Ala  
35               40               45  
Ala Lys Ile Ile Asn Thr Lys Lys Leu Ser Ala Arg Asp His Gln Lys  
50               55               60  
Leu Glu Arg Glu Ala Arg Ile Cys Arg Leu Leu Lys His Pro Asn Ile  
65               70               75               80  
Val Arg Leu His Asp Ser Ile Ser Glu Glu Gly Phe His Tyr Leu Val  
85               90               95  
Phe Asp Leu Val Thr Gly Gly Glu Leu Phe Glu Asp Ile Val Ala Arg  
100              105              110  
Glu Tyr Tyr Ser Glu Ala Asp Ala Ser His Cys Ile His Gln Ile Leu  
115              120              125  
Glu Ser Val Asn His Ile His Gln His Asp Ile Val His Arg Asp Leu  
130              135              140  
Lys Pro Glu Asn Leu Leu Leu Ala Ser Lys Cys Lys Gly Ala Ala Val  
145              150              155              160  
Lys Leu Ala Asp Phe Gly Leu Ala Ile Glu Val Gln Gly Glu Gln Gln  
165              170              175  
Ala Trp Phe Gly Phe Ala Gly Thr Pro Gly Tyr Leu Ser Pro Glu Val  
180              185              190  
Leu Arg Lys Asp Pro Tyr Gly Lys Pro Val Asp Ile Trp Ala Cys Gly  
195              200              205  
Val Ile Leu Tyr Ile Leu Leu Val Gly Tyr Pro Pro Phe Trp Asp Glu  
210              215              220  
Asp Gln His Lys Leu Tyr Gln Gln Ile Lys Ala Gly Ala Tyr Asp Phe  
225              230              235              240  
Pro Ser Pro Glu Trp Asp Thr Val Thr Pro Glu Ala Lys Asn Leu Ile  
245              250              255  
Asn Gln Met Leu Thr Ile Asn Pro Ala Lys Arg Ile Thr Ala Asp Gln  
260              265              270  
Ala Leu Lys His Pro Trp Val Cys Gln Arg Ser Thr Val Ala Ser Met  
275              280              285  
Met His Arg Gln Glu Thr Val Glu Cys Leu Arg Lys Phe Asn Ala Arg  
290              295              300  
Arg Lys Leu Lys Gly Ala Ile Leu Thr Thr Met Leu Val Ser Arg Asn  
305              310              315              320  
Phe Ser Ala Ala Lys Ser Leu Leu Asn Lys Lys Ser Asp Gly Gly Val  
325              330              335  
Lys Pro Gln Ser Asn Asn Lys Asn Ser Leu Val Ser Pro Ala Gln Glu  
340              345              350  
Pro Ala Pro Leu Gln Thr Ala Met Glu Pro Gln Thr Thr Val Val His  
355              360              365  
Asn Ala Thr Asp Gly Ile Lys Gly Ser Thr Glu Ser Cys Asn Thr Thr  
370              375              380  
Thr Glu Asp Glu Asp Leu Lys Val Arg Lys Gln Glu Ile Ile Lys Ile  
385              390              395              400  
Thr Glu Gln Leu Ile Glu Ala Ile Asn Asn Gly Asp Phe Glu Ala Tyr  
405              410              415  
Thr Lys Ile Cys Asp Pro Gly Leu Thr Ser Phe Glu Pro Glu Ala Leu  
420              425              430

Gly Asn Leu Val Glu Gly Met Asp Phe His Lys Phe Tyr Phe Glu Asn		
435	440	445
Leu Leu Ser Lys Asn Ser Lys Pro Ile His Thr Thr Ile Leu Asn Pro		
450	455	460
His Val His Val Ile Gly Glu Asp Ala Ala Cys Ile Ala Tyr Ile Arg		
465	470	475
Leu Thr Gln Tyr Ile Asp Gly Gln Gly Arg Pro Arg Thr Ser Gln Ser		
485	490	495
Glu Glu Thr Arg Val Trp His Arg Arg Asp Gly Lys Trp Leu Asn Val		
500	505	510
His Tyr His Cys Ser Gly Ala Pro Ala Ala Pro Leu Gln		
515	520	525

<210> 1330  
<211> 205  
<212>Amino acid  
<213> Homo sapiens

<400> 1330		
Asn Arg Arg Thr Val Val Lys Met Leu Leu Glu Leu Ser Glu Glu His Lys		
1	5	10
Glu His Leu Ala Phe Leu Pro Gln Val Asp Ser Ala Val Val Ala Glu		
20	25	30
Phe Gly Arg Ile Ala Val Glu Phe Leu Arg Arg Gly Ala Asn Pro Lys		
35	40	45
Ile Tyr Glu Gly Ala Ala Arg Lys Leu Asn Val Ser Ser Asp Thr Val		
50	55	60
Gln His Gly Val Glu Gly Leu Thr Tyr Leu Leu Thr Glu Ser Ser Lys		
65	70	75
Leu Met Ile Ser Glu Leu Asp Phe Gln Asp Ser Val Phe Val Leu Gly		
85	90	95
Phe Ser Glu Glu Leu Asn Lys Leu Leu Leu Glu Leu Tyr Leu Asp Asn		
100	105	110
Arg Lys Glu Ile Arg Thr Ile Leu Ser Glu Leu Ala Pro Ser Leu Pro		
115	120	125
Ser Tyr His Asn Leu Glu Trp Arg Leu Asp Val Gln Leu Ala Ser Arg		
130	135	140
Ser Leu Arg Gln Gln Ile Lys Pro Ala Val Thr Ile Lys Leu His Leu		
145	150	155
Asn Gln Asn Gly Asp His Asn Thr Lys Val Leu Gln Thr Asp Pro Ala		
165	170	175
Thr Leu Leu His Leu Val Gln Gln Leu Glu Gln Ala Leu Glu Glu Met		
180	185	190
Lys Thr Asn His Cys Arg Arg Val Val Arg Asn Ile Lys		
195	200	205

<210> 1331  
<211> 78  
<212>Amino acid  
<213> Homo sapiens

<400> 1331		
Gly Thr Ser Ile Tyr Leu Ala His Arg Val Ala Arg Ala Trp Glu Leu		
1	5	10
		15

Ala Gln Phe Ile His His Thr Ser Lys Lys Ala Asp Val Val Leu Ala		
20	25	30
Cys Gly Asp Ser Ile Val His Pro Glu Asp Leu Ile Cys Cys Pro Leu		
35	40	45
Thr Gly Arg Ser Cys Leu Cys Asp Val His Leu Leu Ser Ser Leu Leu		
50	55	60
Ala Arg Leu Gly Arg Gly Tyr Ala Val Ser Leu Thr Asn Leu		
65	70	75
		78

<210> 1332  
<211> 274  
<212>Amino acid  
<213> Homo sapiens

<400> 1332		
Arg Gly Cys Gly Ser Cys Gly Tyr Lys Pro Ser Ala Gly Pro Ala Trp		
1	5	10
Arg Pro Arg Pro Pro Pro Ala Val Ser Pro Leu Arg His Pro Glu Pro		
20	25	30
Ala Lys Val Leu Ser Phe Ser Ser Cys Pro Leu Pro Ala Leu Gly Arg		
35	40	45
Thr Gly Pro Ser Arg Ala Ala Arg Ala Gln Ser Leu Thr Met Ala Ser		
50	55	60
Leu Phe Lys Lys Lys Thr Val Asp Asp Val Ile Lys Glu Gln Asn Arg		
65	70	75
Glu Leu Arg Gly Thr Gln Arg Ala Ile Ile Arg Asp Arg Ala Ala Leu		
85	90	95
Glu Lys Gln Lys Gln Leu Glu Ile Lys Lys Met Ala Lys		
100	105	110
Ile Gly Asn Lys Glu Ala Cys Lys Val Leu Ala Lys Gln Leu Val His		
115	120	125
Leu Arg Lys Gln Lys Thr Arg Thr Phe Ala Val Ser Ser Lys Val Thr		
130	135	140
Ser Met Ser Thr Gln Thr Lys Val Met Asn Ser Gln Met Lys Met Ala		
145	150	155
Gly Ala Met Ser Thr Thr Ala Lys Thr Met Gln Ala Val Asn Lys Lys		
165	170	175
Met Asp Pro Gln Lys Thr Leu Gln Thr Met Gln Asn Phe Gln Lys Glu		
180	185	190
Asn Met Lys Met Glu Met Thr Glu Glu Met Ile Asn Asp Thr Leu Asp		
195	200	205
Asp Ile Phe Asp Gly Ser Asp Asp Glu Glu Glu Ser Gln Asp Ile Val		
210	215	220
Asn Gln Val Leu Asp Glu Ile Gly Ile Glu Ile Ser Gly Lys Met Ala		
225	230	235
Lys Ala Pro Ser Ala Ala Arg Ser Leu Pro Ser Ala Ser Thr Ser Lys		
245	250	255
Ala Thr Ile Ser Asp Glu Glu Ile Glu Arg Gln Leu Lys Ala Leu Gly		
260	265	270
Val Asp		
274		

<210> 1333  
<211> 157  
<212>Amino acid  
<213> Homo sapiens

<400> 1333  
 Ser Thr Asp Gly Asn Gly Ala Glu Arg Leu Phe Ala Glu Leu Arg Lys  
 1 5 10 15  
 Met Asn Ala Arg Gly Leu Gly Ser Glu Leu Lys Asp Ser Ile Pro Val  
 20 25 30  
 Thr Glu Leu Ser Ala Ser Gly Pro Phe Glu Ser His Asp Leu Leu Arg  
 35 40 45  
 Lys Gly Phe Ser Cys Val Lys Asn Glu Leu Leu Pro Ser His Pro Leu  
 50 55 60  
 'Glu Leu Ser Glu Lys Asn Phe Gln Leu Asn Gln Asp Lys Met Asn Phe  
 65 70 75 80  
 Ser Thr Leu Arg Asn Ile Gln Gly Leu Phe Ala Pro Leu Lys Leu Gln  
 85 90 95  
 Met Glu Phe Lys Ala Val Gln Gln Val Gln Arg Leu Pro Phe Leu Ser  
 100 105 110  
 Ser Ser Asn Leu Ser Leu Asp Val Leu Arg Gly Asn Asp Glu Thr Ile  
 115 120 125  
 Gly Phe Glu Asp Ile Leu Asn Asp Pro Ser Gln Ser Glu Val Met Gly  
 130 135 140  
 Glu Pro His Leu Met Val Glu Tyr Lys Leu Gly Leu Leu  
 145 150 155 157

<210> 1334  
<211> 193  
<212>Amino acid  
<213> Homo sapiens  
<220>  
<221> misc\_feature  
<222> (1)...(193)  
<223> X = any amino acid or stop code

<400> 1334  
 Arg Asn Met Lys Leu His Tyr Val Ala Val Leu Thr Leu Ala Ile Leu  
 1 5 10 15  
 Met Phe Leu Thr Trp Leu Pro Glu Ser Leu Ser Cys Asn Lys Ala Leu  
 20 25 30  
 Cys Ala Ser Asp Val Ser Lys Cys Leu Ile Gln Glu Leu Cys Gln Cys  
 35 40 45  
 Arg Pro Gly Glu Gly Asn Cys Ser Cys Cys Lys Glu Cys Met Leu Cys  
 50 55 60  
 Leu Gly Ala Leu Trp Asp Glu Cys Cys Asp Cys Val Gly Met Cys Asn  
 65 70 75 80  
 Pro Arg Asn Tyr Ser Asp Thr Pro Pro Thr Ser Lys Ser Thr Val Glu  
 85 90 95  
 Glu Leu His Glu Pro Ile Pro Ser Leu Phe Arg Ala Leu Thr Glu Gly  
 100 105 110  
 Asp Thr Gln Leu Asn Trp Asn Ile Val Ser Phe Pro Val Ala Glu Glu  
 115 120 125  
 Leu Ser His His Glu Asn Leu Val Ser Phe Leu Glu Thr Val Asn Gln  
 130 135 140  
 Pro His His Gln Asn Val Ser Val Pro Ser Asn Asn Val His Ala Pro  
 145 150 155 160  
 Tyr Ser Ser Asp Lys Glu Xaa Leu Pro Thr Val Asp Phe Phe His Ser  
 165 170 175  
 Ala Pro Ser Cys Gly Leu Ser Met Xaa Ser Ile Ile Phe Phe Glu Glu

180	185	190
Thr		
193		

<210> 1335  
<211> 179  
<212>Amino acid  
<213> Homo sapiens

<400> 1335  
Val Gly Gly Val Pro Thr Trp Leu Glu Gly Cys Gly Ser Gly Asn Pro  
1               5               10               15  
Ser Pro Arg Ser Gly Gly Pro Gly Ala Arg Leu Thr Leu Pro Ala  
20              25              30  
Leu Gln Met Thr Val His Asn Leu Tyr Leu Phe Asp Arg Asn Gly Val  
35              40              45  
Cys Leu His Tyr Ser Glu Trp His Arg Lys Lys Gln Ala Gly Ile Pro  
50              55              60  
Lys Glu Glu Glu Tyr Lys Leu Met Tyr Gly Met Leu Phe Ser Ile Arg  
65              70              75              80  
Ser Phe Val Ser Lys Met Ser Pro Leu Asp Met Lys Asp Gly Phe Leu  
85              90              95  
Ala Phe Gln Thr Ser Arg Tyr Lys Leu His Tyr Tyr Glu Thr Pro Thr  
100            105            110  
Gly Ile Lys Val Val Met Asn Thr Asp Leu Gly Val Gly Pro Ile Arg  
115            120            125  
Asp Val Leu His His Ile Tyr Ser Ala Leu Tyr Val Glu Leu Val Val  
130            135            140  
Lys Asn Pro Leu Cys Pro Leu Gly Gln Thr Val Gln Ser Glu Leu Phe  
145            150            155            160  
Arg Ser Arg Leu Asp Ser Tyr Val Arg Ser Leu Pro Phe Phe Ser Ala  
165            170            175  
Arg Ala Gly  
179

<210> 1336  
<211> 236  
<212>Amino acid  
<213> Homo sapiens

<400> 1336  
Pro Gly Leu Ser Gln Glu Pro Ser Gly Ser Met Glu Thr Val Val Ile  
1               5               10               15  
Val Ala Ile Gly Val Leu Ala Thr Ile Phe Leu Ala Ser Phe Ala Ala  
20              25              30  
Leu Val Leu Val Cys Arg Gln Arg Tyr Cys Arg Pro Arg Asp Leu Leu  
35              40              45  
Gln Arg Tyr Asp Ser Lys Pro Ile Val Asp Leu Ile Gly Ala Met Glu  
50              55              60  
Thr Gln Ser Glu Pro Ser Glu Leu Glu Leu Asp Asp Val Val Ile Thr  
65              70              75              80  
Asn Pro His Ile Glu Ala Ile Leu Glu Asn Glu Asp Trp Ile Glu Asp  
85              90              95  
Ala Ser Gly Leu Met Ser His Cys Ile Ala Ile Leu Lys Ile Cys His

100	105	110
Thr Leu Thr Glu Lys Leu Val Ala Met Thr Met Gly Ser Gly Ala Lys		
115	120	125
Met Lys Thr Ser Ala Ser Val Ser Asp Ile Ile Val Val Ala Lys Arg		
130	135	140
Ile Ser Pro Arg Val Asp Asp Val Val Lys Ser Met Tyr Pro Pro Leu		
145	150	155
Asp Pro Lys Leu Leu Asp Ala Arg Thr Thr Ala Leu Leu Ser Val		
165	170	175
Ser His Leu Val Leu Val Thr Arg Asn Ala Cys His Leu Thr Gly Gly		
180	185	190
Leu Asp Trp Ile Asp Gln Ser Leu Ser Ala Ala Glu Glu His Leu Glu		
195	200	205
Val Leu Arg Glu Ala Ala Leu Ala Ser Glu Pro Asp Lys Gly Leu Pro		
210	215	220
Gly Pro Glu Gly Phe Leu Gln Glu Gln Ser Ala Ile		
225	230	235 236

<210> 1337  
<211> 161  
<212>Amino acid  
<213> Homo sapiens

1	5	10	15
His Trp Leu Leu Thr Thr Trp Gly Cys Ile Val Phe Ser Gly Ser Tyr			
20	25	30	
Ala Trp Ala Asn Phe Thr Ile Leu Ala Leu Gly Val Trp Ala Val Ala			
35	40	45	
Gln Arg Asp Ser Ile Asp Ala Ile Ser Met Phe Leu Gly Gly Leu Leu			
50	55	60	
Ala Thr Ile Phe Leu Asp Ile Val His Ile Ser Ile Phe Tyr Pro Arg			
65	70	75	80
Val Ser Leu Thr Asp Thr Gly Arg Phe Gly Val Gly Met Ala Ile Leu			
85	90	95	
Ser Leu Leu Leu Lys Pro Leu Ser Cys Cys Phe Val Tyr His Met Tyr			
100	105	110	
Arg Glu Arg Gly Gly Glu Leu Leu Val His Thr Gly Phe Leu Gly Ser			
115	120	125	
Ser Gln Asp Arg Ser Ala Tyr Gln Thr Ile Asp Ser Ala Glu Ala Pro			
130	135	140	
Ala Asp Pro Phe Ala Val Pro Glu Gly Arg Ser Gln Asp Ala Arg Gly			
145	150	155	160
Tyr			
161			

<210> 1338  
<211> 200  
<212>Amino acid  
<213> Homo sapiens

<400> 1338  
Pro Ala Ser Arg Pro Leu Leu Gly Pro Asp Thr Gly Ser Val Ala Asn

1	5	10	15
Ile Phe Lys Gly Leu Val Ile Leu Pro Glu Met Ser Leu Val Ile Arg			
20	25	30	
Asn Leu Gln Arg Val Ile Pro Ile Arg Arg Ala Pro Leu Arg Ser Lys			
35	40	45	
Ile Glu Ile Val Arg Arg Ile Leu Gly Val Gln Lys Phe Asp Leu Gly			
50	55	60	
Ile Ile Cys Val Asp Asn Lys Asn Ile Gln His Ile Asn Arg Ile Tyr			
65	70	75	80
Arg Asp Arg Asn Val Pro Thr Asp Val Leu Ser Phe Pro Phe His Glu			
85	90	95	
His Leu Lys Ala Gly Glu Phe Pro Gln Pro Asp Phe Pro Asp Asp Tyr			
100	105	110	
Asn Leu Gly Asp Ile Phe Leu Gly Val Glu Tyr Ile Phe His Gln Cys			
115	120	125	
Lys Glu Asn Glu Asp Tyr Asn Asp Val Leu Thr Val Thr Ala Thr His			
130	135	140	
Gly Leu Cys His Leu Leu Gly Phe Thr His Gly Thr Glu Ala Glu Trp			
145	150	155	160
Gln Gln Met Phe Gln Lys Glu Lys Ala Val Leu Asp Glu Leu Gly Arg			
165	170	175	
Arg Thr Gly Thr Arg Leu Gln Pro Leu Thr Pro Gly Pro Leu Pro Glu			
180	185	190	
Gly Ala Glu Gly Arg Val Pro Phe			
195	200		

<210> 1339  
 <211> 267  
 <212>Amino acid  
 <213> Homo sapiens

1	5	10	15
Leu Arg Asn Ala Leu Asp Val Leu His Arg Glu Val Pro Arg Val Leu			
20	25	30	
Val Asn Leu Val Asp Phe Leu Asn Pro Thr Ile Met Arg Gln Val Phe			
35	40	45	
Leu Gly Ser Lys Thr Glu Thr Ile Asp Leu Arg Ala Glu Met Pro Ile			
50	55	60	
Thr Cys Pro Thr Gln Asn Glu Pro Phe Leu Arg Thr Pro Arg Asn Ser			
65	70	75	80
Asn Tyr Thr Tyr Pro Ile Lys Pro Ala Ile Glu Asn Trp Gly Ser Asp			
85	90	95	
Phe Leu Cys Thr Glu Trp Lys Ala Ser Asn Ser Val Pro Thr Ser Val			
100	105	110	
His Gln Leu Arg Pro Ala Asp Ile Lys Val Val Ala Ala Leu Gly Asp			
115	120	125	
Ser Leu Thr Thr Ala Val Gly Ile Ala Arg Pro Asn Asn Ser Ser Asp Leu			
130	135	140	
Pro Thr Ser Trp Arg Gly Leu Ser Trp Ser Ile Gly Gly Asp Gly Asn			
145	150	155	160
Leu Glu Thr His Thr Leu Pro Asn Ile Leu Lys Lys Phe Asn Pro			
165	170	175	
Tyr Leu Leu Gly Phe Ser Thr Ser Trp Glu Gly Thr Ala Gly Leu			
180	185	190	
Asn Val Ala Ala Glu Gly Ala Arg Ala Arg Asp Met Pro Ala Gln Ala			
195	200	205	
Trp Asp Leu Val Glu Arg Met Lys Asn Ser Pro Asp Ile Asn Leu Glu			

210	215	220		
Lys Asp Trp Lys Leu Val Thr Leu Phe Ile Gly Asn Asp Leu Cys	225	230	235	240
His Tyr Cys Glu Asn Pro Glu Ala His Leu Ala Thr Glu Tyr Val Gln	245	250	255	
His Ile Gln Gln Ala Leu Asp Ile Leu Ser Glu	260	265	267	

<210> 1340  
<211> 286  
<212>Amino acid  
<213> Homo sapiens

<400> 1340				
Val Val Glu Phe Leu Trp Ser Arg Arg Pro Ser Gly Ser Ser Asp Pro	1	5	10	15
Arg Pro Arg Arg Pro Ala Ser Lys Cys Gln Met Met Glu Glu Arg Ala	20	25	30	
Asn Leu Met His Met Met Lys Leu Ser Ile Lys Val Leu Leu Gln Ser	35	40	45	
Ala Leu Ser Leu Gly Arg Ser Leu Asp Ala Asp His Ala Pro Leu Gln	50	55	60	
Gln Phe Phe Val Val Met Glu His Cys Leu Lys His Gly Leu Lys Val	65	70	75	80
Lys Lys Ser Phe Ile Gly Gln Asn Lys Ser Phe Phe Gly Pro Leu Glu	85	90	95	
Leu Val Glu Lys Leu Cys Pro Glu Ala Ser Asp Ile Ala Thr Ser Val	100	105	110	
Arg Asn Leu Pro Glu Leu Lys Thr Ala Val Gly Arg Gly Arg Ala Trp	115	120	125	
Leu Tyr Leu Ala Leu Met Gln Lys Leu Ala Asp Tyr Leu Lys Val	130	135	140	
Leu Ile Asp Asn Lys His Leu Leu Ser Glu Phe Tyr Glu Pro Glu Ala	145	150	155	160
Leu Met Met Glu Glu Gly Met Val Ile Val Gly Leu Leu Val Gly	165	170	175	
Leu Asn Val Leu Asp Ala Asn Leu Cys Leu Lys Gly Glu Asp Leu Asp	180	185	190	
Ser Gln Val Gly Val Ile Asp Phe Ser Leu Tyr Leu Lys Asp Val Gln	195	200	205	
Asp Leu Asp Gly Gly Lys Glu His Glu Arg Ile Thr Asp Val Leu Asp	210	215	220	
Gln Lys Asn Tyr Val Glu Glu Leu Asn Arg His Leu Ser Cys Thr Val	225	230	235	240
Gly Asp Leu Gln Thr Lys Ile Asp Gly Leu Glu Lys Thr Asn Ser Lys	245	250	255	
Leu Gln Glu Arg Val Ser Ala Ala Thr Asp Arg Ile Cys Ser Leu Gln	260	265	270	
Glu Glu Gln Gln Leu Arg Glu Gln Asn Glu Leu Ile Arg	275	280	285	286

<210> 1341  
<211> 233  
<212>Amino acid  
<213> Homo sapiens

<400> 1341  
 Lys Pro Glu Gly Ala Arg Arg Val Gln Phe Val Met Gly Leu Phe Gly  
 1               5               10               15  
 Lys Thr Gln Glu Lys Pro Pro Lys Glu Leu Val Asn Glu Trp Ser Leu  
 20               25               30  
 Lys Ile Arg Lys Glu Met Arg Val Val Asp Arg Gln Ile Arg Asp Ile  
 35               40               45  
 Gln Arg Glu Glu Glu Lys Val Lys Arg Ser Val Lys Asp Ala Ala Lys  
 50               55               60  
 Lys Gly Gln Lys Asp Val Cys Ile Val Leu Ala Lys Glu Met Ile Arg  
 65               70               75               80  
 Ser Arg Lys Ala Val Ser Lys Leu Tyr Ala Ser Lys Ala His Met Asn  
 85               90               95  
 Ser Val Leu Met Gly Met Lys Asn Gln Leu Ala Val Leu Arg Val Ala  
 100              105              110  
 Gly Ser Leu Gln Lys Ser Thr Glu Val Met Lys Ala Met Gln Ser Leu  
 115              120              125  
 Val Lys Ile Pro Glu Ile Gln Ala Thr Met Arg Glu Leu Ser Lys Glu  
 130              135              140  
 Met Met Lys Ala Gly Ile Ile Glu Glu Met Leu Glu Asp Thr Phe Glu  
 145              150              155              160  
 Ser Met Asp Asp Gln Glu Glu Met Glu Glu Ala Glu Met Glu Ile  
 165              170              175  
 Asp Arg Ile Leu Phe Glu Ile Thr Ala Gly Ala Leu Gly Lys Ala Pro  
 180              185              190  
 Ser Lys Val Thr Asp Ala Leu Pro Glu Pro Glu Pro Pro Gly Ala Met  
 195              200              205  
 Ala Ala Ser Glu Asp Glu Glu Glu Glu Glu Ala Leu Glu Ala Met  
 210              215              220  
 Gln Ser Arg Leu Ala Thr Leu Arg Ser  
 225              230              233

<210> 1342  
<211> 150  
<212> Amino acid  
<213> Homo sapiens

<400> 1342  
 Arg Trp Asn Ser Ile Met Glu Leu Ala Leu Leu Cys Gly Leu Val Val  
 1               5               10               15  
 Met Ala Gly Val Ile Pro Ile Gln Gly Gly Ile Leu Asn Leu Asn Lys  
 20               25               30  
 Met Val Lys Gln Val Thr Gly Lys Met Pro Ile Leu Ser Tyr Trp Pro  
 35               40               45  
 Tyr GLY Cys His Cys Gly Leu Gly Gly Arg Gly Gln Pro Lys Asp Ala  
 50               55               60  
 Thr Asp Trp Cys Cys Gln Thr His Asp Cys Cys Tyr Asp His Leu Lys  
 65               70               75               80  
 Thr Gln Gly Cys Gly Ile Tyr Lys Asp Tyr Tyr Arg Tyr Asn Phe Ser  
 85               90               95  
 Gln Gly Asn Ile His Cys Ser Asp Lys Gly Ser Trp Cys Glu Gln Gln  
 100              105              110  
 Leu Cys Ala Cys Asp Lys Glu Val Ala Phe Cys Leu Lys Arg Asn Leu  
 115              120              125  
 Asp Thr Tyr Gln Lys Arg Leu Arg Phe Tyr Trp Arg Pro His Cys Arg  
 130              135              140  
 Gly Gln Thr Pro Gly Cys

145

150

<210> 1343  
<211> 127  
<212>Amino acid  
<213> Homo sapiens

<400> 1343  
Lys Thr Val Ala Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe  
1               5               10               15  
Met Lys Met Leu Gln Ala Arg Lys Gln His Met Ser Thr Glu Leu Thr  
20               25               30  
Ile Glu Ser Glu Ala Pro Ser Asp Ser Ser Gly Ile Asn Leu Ser Gly  
35               40               45  
Phe Gly Ser Glu Gln Leu Asp Thr Asn Asp Glu Ser Asp Val Ser Ser  
50               55               60  
Ala Leu Ser Tyr Ile Leu Pro Tyr Leu Ser Leu Arg Asn Leu Gly Ala  
65               70               75               80  
Glu Ser Ile Leu Leu Pro Phe Thr Glu Gln Leu Phe Ser Asn Val Gln  
85               90               95  
Asp Gly Asp Arg Leu Leu Ser Ile Leu Lys Asn Asn Arg Lys Ser Pro  
100              105              110  
Ser Gln Ser Ser Leu Leu Gly Asn Lys Phe Lys Asn Lys Ile Phe  
115              120              125              127

<210> 1344  
<211> 126  
<212>Amino acid  
<213> Homo sapiens

<400> 1344  
Leu Pro Leu Thr Leu Leu Leu Ala Ala Pro Phe Ala His Leu Leu Leu  
1               5               10               15  
Pro Pro Gly His Asp Gln Ser Pro Cys Trp His Pro Gly Pro Ala Leu  
20               25               30  
Ser Pro Gly Thr Leu Gly Pro Leu Ser Trp Ala Met Ala Asn Ser Gly  
35               40               45  
Leu Gln Leu Leu Gly Tyr Phe Leu Ala Leu Gly Gly Trp Val Gly Ile  
50               55               60  
Ile Ala Ser Thr Ala Leu Pro Gln Trp Lys Gln Ser Ser Tyr Ala Gly  
65               70               75               80  
Asp Ala Ser Ile Gln Leu Arg Ser Lys Val Phe Val Leu Glu Ser Glu  
85               90               95  
Trp Gly Gly Asp Ser Leu Gly Leu Pro Arg Asp Cys Gly Trp Ser Cys  
100              105              110  
Leu Leu His Ser Ala Val Arg Ser Glu Lys Gly Phe Trp Ser  
115              120              125              126

<210> 1345  
<211> 328  
<212>Amino acid  
<213> Homo sapiens

&lt;400&gt; 1345

Asp	Pro	Arg	Val	Arg	Pro	Pro	Leu	Leu	Gln	Pro	Pro	Pro	Pro	Leu	Leu
1					5				10					15	
Pro	Arg	Leu	Val	Ile	Leu	Lys	Met	Ala	Pro	Leu	Asp	Leu	Asp	Lys	Tyr
					20				25					30	
Val	Glu	Ile	Ala	Arg	Leu	Cys	Lys	Tyr	Leu	Pro	Glu	Asn	Asp	Leu	Lys
					35				40					45	
Arg	Leu	Cys	Asp	Tyr	Val	Cys	Asp	Leu	Leu	Glu	Glu	Ser	Asn	Val	
					50				55					60	
Gln	Pro	Val	Ser	Thr	Pro	Val	Thr	Val	Cys	Gly	Asp	Ile	His	Gly	Gln
					65				70					75	
Phe	Tyr	Asp	Leu	Cys	Glu	Leu	Phe	Arg	Thr	Gly	Gly	Gln	Val	Pro	Asp
					85				90					95	
Thr	Asn	Tyr	Ile	Phe	Met	Gly	Asp	Phe	Val	Asp	Arg	Gly	Tyr	Tyr	Ser
					100				105					110	
Leu	Glu	Thr	Phe	Thr	Tyr	Leu	Ile	Ala	Leu	Lys	Ala	Lys	Trp	Pro	Asp
					115				120					125	
Arg	Ile	Thr	Leu	Leu	Arg	Gly	Asn	His	Glu	Ser	Arg	Gln	Ile	Thr	Gln
					130				135					140	
Val	Tyr	Gly	Phe	Tyr	Asp	Glu	Cys	Gln	Thr	Lys	Tyr	Gly	Asn	Ala	Asn
					145				150					155	
Ala	Trp	Arg	Tyr	Cys	Thr	Lys	Val	Phe	Asp	Met	Leu	Thr	Val	Ala	Ala
					165				170					175	
Leu	Ile	Asp	Glu	Gln	Ile	Leu	Cys	Val	His	Gly	Gly	Leu	Ser	Pro	Asp
					180				185					190	
Ile	Lys	Thr	Leu	Asp	Gln	Ile	Arg	Thr	Ile	Glu	Arg	Asn	Gln	Glu	Ile
					195				200					205	
Pro	His	Lys	Gly	Ala	Phe	Cys	Asp	Leu	Val	Trp	Ser	Asp	Pro	Glu	Asp
					210				215					220	
Val	Asp	Thr	Trp	Ala	Ile	Ser	Pro	Arg	Gly	Ala	Gly	Trp	Leu	Phe	Gly
					225				230					235	
Ala	Lys	Val	Thr	Asn	Glu	Phe	Val	His	Ile	Asn	Asn	Leu	Lys	Leu	Ile
					245				250					255	
Cys	Arg	Ala	His	Gln	Leu	Val	His	Glu	Gly	Tyr	Lys	Phe	Met	Phe	Asp
					260				265					270	
Glu	Lys	Leu	Val	Thr	Val	Trp	Ser	Ala	Pro	Asn	Tyr	Cys	Tyr	Arg	Cys
					275				280					285	
Gly	Asn	Ile	Ala	Ser	Ile	Met	Val	Phe	Lys	Asp	Val	Asn	Thr	Arg	Glu
					290				295					300	
Pro	Lys	Leu	Phe	Arg	Ala	Val	Pro	Asp	Ser	Glu	Arg	Val	Ile	Pro	Pro
					305				310					315	
Arg	Thr	Thr	Thr	Pro	Tyr	Phe	Leu							320	
					325				328						

&lt;210&gt; 1346

&lt;211&gt; 253

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1346

Ser	Phe	Ala	Gly	Ala	Ala	Ala	Arg	Pro	Ser	Thr	Pro	Pro	Ala	Ser	Gly
1					5				10					15	
Arg	Gly	Ala	Ala	Pro	Gly	Arg	Pro	Gly	Pro	Ser	Pro	Met	Asp	Leu	Arg
					20				25					30	
Ala	Gly	Asp	Ser	Trp	Gly	Met	Leu	Ala	Cys	Leu	Cys	Thr	Val	Leu	Trp

35	40	45
His Leu Pro Ala Val Pro Ala Leu Asn Arg Thr Gly Asp Pro Gly Pro		
50	55	60
Gly Pro Ser Ile Gln Lys Thr Tyr Asp Leu Thr Arg Tyr Leu Glu His		
65	70	75
Gln Leu Arg Ser Leu Ala Gly Thr Tyr Leu Asn Tyr Leu Gly Pro Pro		
85	90	95
Phe Asn Glu Pro Asp Phe Asn Pro Pro Arg Leu Gly Ala Glu Thr Leu		
100	105	110
Pro Arg Ala Thr Val Asp Leu Glu Val Trp Arg Ser Leu Asn Asp Lys		
115	120	125
Leu Arg Leu Thr Gln Asn Tyr Glu Ala Tyr Ser His Leu Leu Cys Tyr		
130	135	140
Leu Arg Gly Leu Asn Arg Gln Ala Ala Thr Ala Glu Leu Arg Arg Ser		
145	150	155
Leu Ala His Phe Cys Thr Ser Leu Gln Gly Leu Leu Gly Ser Ile Ala		
165	170	175
Gly Val Met Ala Ala Leu Gly Tyr Pro Leu Pro Gln Pro Leu Pro Gly		
180	185	190
Thr Glu Pro Thr Trp Thr Pro Gly Pro Ala His Ser Asp Phe Leu Gln		
195	200	205
Lys Met Asp Asp Phe Trp Leu Leu Lys Glu Leu Gln Thr Trp Leu Trp		
210	215	220
Arg Ser Ala Lys Asp Phe Asn Arg Leu Lys Lys Met Gln Pro Pro		
225	230	235
Ala Ala Ala Val Thr Leu His Leu Gly Ala His Gly Phe		
245	250	253

<210> 1347  
 <211> 195  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1347			
Ile Lys Ile Ser Leu Lys Lys Arg Ser Met Ser Gly Ile Ser Gly Cys			
1	5	10	15
Pro Phe Leu Trp Gly Leu Leu Ala Leu Leu Gly Leu Ala Leu Val			
20	25	30	
Ile Ser Leu Ile Phe Asn Ile Ser His Tyr Val Glu Lys Gln Arg Gln			
35	40	45	
Asp Lys Met Tyr Ser Tyr Ser Ser Asp His Thr Arg Val Asp Glu Tyr			
50	55	60	
Tyr Ile Glu Asp Thr Pro Ile Tyr Gly Asn Leu Asp Asp Met Ile Ser			
65	70	75	80
Glu Pro Met Asp Glu Asn Cys Tyr Glu Gln Met Lys Ala Arg Pro Glu			
85	90	95	
Lys Ser Val Asn Lys Met Gln Glu Ala Thr Pro Ser Ala Gln Ala Thr			
100	105	110	
Asn Glu Thr Gln Met Cys Tyr Ala Ser Leu Asp His Ser Val Lys Gly			
115	120	125	
Lys Arg Arg Lys Pro Arg Lys Gln Asn Thr His Phe Ser Asp Lys Asp			
130	135	140	
Gly Asp Glu Gln Leu His Ala Ile Asp Ala Ser Val Ser Lys Thr Thr			
145	150	155	160
Leu Val Asp Ser Phe Ser Pro Glu Ser Gln Ala Val Glu Glu Asn Ile			
165	170	175	
His Asp Asp Pro Ile Arg Leu Phe Gly Leu Ile Arg Ala Lys Arg Glu			
180	185	190	
Pro Ile Asn			

195

<210> 1348  
 <211> 268  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1348  
 Val Glu Phe His Pro Gln Arg Ala Arg Ala Gly Ala Arg Ala Pro Ser  
   1                 5                 10                 15  
 Met Gly Val Leu Leu Thr Gln Arg Thr Leu Leu Ser Leu Val Leu Ala  
   20                 25                 30  
 Leu Leu Phe Pro Ser Met Ala Ser Met Ala Ala Ile Gly Ser Cys Ser  
   35                 40                 45  
 Lys Glu Tyr Arg Val Leu Leu Gly Gln Leu Gln Lys Gln Thr Asp Leu  
   50                 55                 60  
 Met Gln Asp Thr Ser Arg Leu Leu Asp Pro Tyr Ile Arg Ile Gln Gly  
   65                 70                 75                 80  
 Leu Asp Val Pro Lys Leu Arg Glu His Cys Arg Glu Arg Pro Gly Ala  
   85                 90                 95  
 Phe Pro Ser Glu Glu Thr Leu Arg Gly Leu Gly Arg Arg Cys Phe Leu  
   100                 105                 110  
 Gln Thr Leu Asn Ala Thr Leu Gly Cys Val Leu His Arg Leu Ala Asp  
   115                 120                 125  
 Leu Gln Gln Arg Leu Pro Lys Ala Gln Asp Leu Glu Arg Ser Gly Leu  
   130                 135                 140  
 Asn Ile Glu Asp Leu Glu Lys Leu Gln Met Ala Arg Pro Asn Ile Leu  
   145                 150                 155                 160  
 Gly Leu Arg Asn Asn Ile Tyr Cys Met Ala Gln Leu Leu Asp Asn Ser  
   165                 170                 175  
 Asp Thr Ala Glu Pro Thr Lys Ala Gly Arg Gly Ala Ser Gln Pro Pro  
   180                 185                 190  
 Thr Pro Thr Pro Ala Ser Asp Ala Phe Gln Arg Lys Leu Glu Gly Cys  
   195                 200                 205  
 Arg Phe Leu His Gly Tyr His Arg Phe Met His Ser Val Gly Arg Val  
   210                 215                 220  
 Phe Ser Lys Trp Gly Glu Ser Pro Asn Arg Ser Arg Arg His Ser Pro  
   225                 230                 235                 240  
 His Gln Ala Leu Arg Lys Gly Val Arg Arg Thr Arg Pro Ser Arg Lys  
   245                 250                 255  
 Gly Lys Arg Leu Met Thr Arg Gly Gln Leu Pro Arg  
   260                 265                 268

<210> 1349  
 <211> 138  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1349  
 Asp Phe Pro Gly Arg Arg Phe Arg Leu Val Trp Leu Leu Val Leu Arg  
   1                 5                 10                 15  
 Leu Pro Trp Arg Val Pro Gly Gln Leu Asp Pro Thr Thr Gly Arg Arg  
   20                 25                 30  
 Phe Ser Glu His Lys Leu Cys Ala Asp Asp Glu Cys Ser Met Leu Met

35	40	45
Tyr Arg Gly Glu Ala Leu Glu Asp Phe Thr Gly Pro Asp Cys Arg Phe		
50	55	60
Val Asn Phe Lys Lys Gly Asp Pro Val Tyr Val Tyr Tyr Lys Leu Ala		
65	70	75
Arg Gly Trp Pro Glu Val Trp Ala Gly Ser Val Gly Arg Thr Phe Gly		
85	90	95
Tyr Phe Pro Lys Asp Leu Ile Gln Val Val His Glu Tyr Thr Lys Glu		
100	105	110
Glw Leu Gln Val Pro Thr Asn Glu Thr Asp Phe Val Cys Phe Asp Gly		
115	120	125
Gly Arg Asp Asp Phe His Asn Tyr Asn Val		
130	135	138

<210> 1350  
<211> 236  
<212>Amino acid  
<213> Homo sapiens

<400> 1350		
Ser Pro Leu Gly Lys Glu Gly Gln Glu Glu Val Arg Val Lys Ile Lys		
1	5	10
Asp Leu Asn Glu His Ile Val Cys Cys Leu Cys Ala Gly Tyr Phe Val		
20	25	30
Asp Ala Thr Thr Ile Thr Glu Cys Leu His Thr Phe Cys Lys Ser Cys		
35	40	45
Ile Val Lys Tyr Leu Gln Thr Ser Lys Tyr Cys Pro Met Cys Asn Ile		
50	55	60
Lys Ile His Glu Thr Gln Pro Leu Leu Asn Leu Lys Leu Asp Arg Val		
65	70	75
Met Gln Asp Ile Val Tyr Lys Leu Val Pro Gly Leu Gln Asp Ser Glu		
85	90	95
Glu Lys Arg Ile Arg Glu Phe Tyr Gln Ser Arg Gly Leu Asp Arg Val		
100	105	110
Thr Gln Pro Thr Gly Glu Glu Pro Ala Leu Ser Asn Leu Gly Leu Pro		
115	120	125
Phe Ser Ser Phe Asp His Ser Lys Ala His Tyr Tyr Arg Tyr Asp Glu		
130	135	140
Gln Leu Asn Leu Cys Leu Glu Arg Leu Ser Ser Gly Lys Asp Lys Asn		
145	150	155
Lys Ser Val Leu Gln Asn Lys Tyr Val Arg Cys Ser Val Arg Ala Glu		
165	170	175
Val Arg His Leu Arg Arg Val Leu Cys His Arg Leu Met Leu Asn Pro		
180	185	190
Gln His Val Gln Leu Leu Phe Asp Asn Glu Val Leu Pro Asp His Met		
195	200	205
Thr Met Lys Gln Ile Trp Leu Ser Arg Trp Phe Gly Lys Pro Ser Pro		
210	215	220
Leu Leu Leu Gln Tyr Ser Val Lys Glu Lys Arg Arg		
225	230	235 236

<210> 1351  
<211> 178  
<212>Amino acid  
<213> Homo sapiens

<400> 1351  
 Leu Trp Trp Tyr Ser Ala His Ala Ala Val Asp Ala Met Met Asp Val  
 1 5 10 15  
 Phe Gly Val Gly Phe Pro Ser Lys Val Pro Trp Lys Lys Met Ser Ala  
 20 25 30  
 Glu Glu Leu Glu Asn Gln Tyr Cys Pro Ser Arg Trp Val Val Arg Leu  
 35 40 45  
 Gly Ala Glu Glu Ala Leu Arg Thr Tyr Ser Gln Ile Gly Ile Glu Ala  
 50 55 60  
 Thr Thr Arg Ala Arg Ala Thr Arg Lys Ser Leu Leu His Val Pro Tyr  
 65 70 75 80  
 Gly Asp Gly Glu Gly Glu Lys Val Asp Ile Tyr Phe Pro Asp Glu Ser  
 85 90 95  
 Ser Glu Ala Thr Thr Arg Ala Arg Ala Thr Arg Lys Ser Leu Leu His  
 100 105 110  
 Val Pro Tyr Gly Asp Gly Glu Gly Glu Lys Val Asp Ile Tyr Phe Pro  
 115 120 125  
 Asp Glu Ser Ser Glu Ala Leu Pro Phe Phe Leu Phe Phe His Gly Gly  
 130 135 140  
 Tyr Trp Gln Ser Gly Arg His Pro Gly Pro His Gly Arg Pro Gly Asp  
 145 150 155 160  
 Pro Gln Arg Cys Val Cys Pro Glu Ala Val Ser Lys Gln Gln Ala Phe  
 165 170 175  
 Ser Trp  
 178

<210> 1352  
<211> 284  
<212>Amino acid  
<213> Homo sapiens

<400> 1352  
 Gly Val Arg Met Ala Ser Arg Gly Arg Arg Pro Glu His Gly Gly Pro  
 1 5 10 15  
 Pro Glu Leu Phe Tyr Asp Glu Thr Glu Ala Arg Lys Tyr Val Arg Asn  
 20 25 30  
 Ser Arg Met Ile Asp Ile Gln Thr Arg Met Ala Gly Arg Ala Leu Glu  
 35 40 45  
 Leu Leu Tyr Leu Pro Glu Asn Lys Pro Cys Tyr Leu Leu Asp Ile Gly  
 50 55 60  
 Cys Gly Thr Gly Leu Ser Gly Ser Tyr Leu Ser Asp Glu Gly His Tyr  
 65 70 75 80  
 Trp Val Gly Leu Asp Ile Ser Pro Ala Met Leu Asp Glu Ala Val Asp  
 85 90 95  
 Arg Glu Ile Glu Gly Asp Leu Leu Gly Asp Met Gly Gln Gly Ile  
 100 105 110  
 Pro Phe Lys Pro Gly Thr Phe Asp Gly Cys Ile Ser Ile Ser Ala Val  
 115 120 125  
 Gln Trp Leu Cys Asn Ala Asn Lys Lys Ser Glu Asn Pro Ala Lys Arg  
 130 135 140  
 Leu Tyr Cys Phe Phe Ala Ser Leu Phe Ser Val Leu Val Arg Gly Ser  
 145 150 155 160  
 Arg Ala Val Leu Gln Leu Tyr Pro Glu Asn Ser Glu Gln Leu Glu Leu  
 165 170 175  
 Ile Thr Thr Gln Ala Thr Lys Ala Gly Phe Ser Gly Gly Met Val Val  
 180 185 190  
 Asp Tyr Pro Asn Ser Ala Lys Ala Lys Lys Phe Tyr Leu Cys Leu Phe

195	200	205
Ser Gly Pro Ser Thr Phe Ile Pro Glu Gly Leu Ser Glu Asn Gln Asp		
210	215	220
Glu Val Glu Pro Arg Glu Ser Val Phe Thr Asn Glu Arg Phe Pro Leu		
225	230	235
Arg Met Ser Arg Arg Gly Met Val Arg Lys Ser Arg Ala Trp Val Leu		
245	250	255
Glu Lys Lys Glu Arg His Arg Arg Gln Gly Arg Glu Val Arg Pro Asp		
260	265	270
Thr Gln Tyr Thr Gly Arg Lys Arg Lys Pro Arg Phe		
275	280	284

<210> 1353  
<211> 363  
<212> Amino acid  
<213> Homo sapiens

<400> 1353		
Thr Leu Ile Cys Arg Met Ala Gly Cys Gly Glu Ile Asp His Ser Ile		
1	5	10
Asn Met Leu Pro Thr Asn Arg Lys Ala Asn Glu Ser Cys Ser Asn Thr		
20	25	30
Ala Pro Ser Leu Thr Val Pro Glu Cys Ala Ile Cys Leu Gln Thr Cys		
35	40	45
Val His Pro Val Ser Leu Pro Cys Lys His Val Phe Cys Tyr Leu Cys		
50	55	60
Val Lys Gly Ala Ser Trp Leu Gly Lys Arg Cys Ala Leu Cys Arg Gln		
65	70	75
Glu Ile Pro Glu Asp Phe Leu Asp Lys Pro Thr Leu Leu Ser Pro Glu		
85	90	95
Glu Leu Lys Ala Ala Ser Arg Gly Asn Gly Glu Tyr Ala Trp Tyr Tyr		
100	105	110
Glu Gly Arg Asn Gly Trp Trp Gln Tyr Asp Glu Arg Thr Ser Arg Glu		
115	120	125
Leu Glu Asp Ala Phe Ser Lys Gly Lys Asn Thr Glu Met Leu Ile		
130	135	140
Ala Gly Phe Leu Tyr Val Ala Asp Leu Glu Asn Met Val Gln Tyr Arg		
145	150	155
Arg Asn Glu His Gly Arg Arg Arg Lys Ile Lys Arg Asp Ile Ile Asp		
165	170	175
Ile Pro Lys Lys Gly Val Ala Gly Leu Arg Leu Asp Cys Asp Ala Asn		
180	185	190
Thr Val Asn Leu Ala Arg Glu Ser Ser Ala Asp Gly Ala Asp Ser Val		
195	200	205
Ser Ala Gln Ser Gly Ala Ser Val Gln Pro Leu Val Ser Ser Val Arg		
210	215	220
Pro Leu Thr Ser Val Asp Gly Gln Leu Thr Ser Pro Ala Thr Pro Ser		
225	230	235
Pro Asp Ala Ser Thr Ser Leu Glu Asp Ser Phe Ala His Leu Gln Leu		
245	250	255
Ser Gly Asp Asn Thr Ala Glu Arg Ser His Arg Gly Glu Gly Glu Glu		
260	265	270
Asp His Glu Ser Pro Ser Ser Gly Arg Val Pro Ala Pro Asp Thr Ser		
275	280	285
Ile Glu Glu Thr Glu Ser Asp Ala Ser Ser Asp Ser Glu Asp Val Ser		
290	295	300
Ala Val Val Ala Gln His Ser Leu Thr Gln Gln Arg Leu Leu Val Ser		
305	310	315
Asn Ala Asn Gln Thr Val Pro Asp Arg Ser Asp Arg Ser Gly Thr Asp		

325	330	335
Arg Ser Val Ala Gly Gly Gly Thr Val Ser Val Ser Val Arg Ser Arg		
340	345	350
Arg Pro Asp Gly Gln Cys Thr Val Thr Glu Val		
355	360	363

<210> 1354  
<211> 368  
<212>Amino acid  
<213> Homo sapiens

<400> 1354		
Gly Ala Thr Pro Leu Gly Ser Val Gly Gly Arg Thr Gly Lys Met Asp		
1	5	10
Ala Ala Thr Leu Thr Tyr Asp Thr Leu Arg Phe Ala Glu Phe Glu Asp		
20	25	30
Phe Pro Val Thr Ser Glu Pro Val Trp Ile Leu Gly Arg Lys Tyr Ser		
35	40	45
Ile Phe Thr Glu Lys Asp Glu Ile Leu Ser Asp Val Ala Ser Arg Leu		
50	55	60
Trp Phe Thr Tyr Arg Lys Asn Phe Pro Ala Ile Gly Gly Thr Gly Pro		
65	70	75
Thr Ser Asp Thr Gly Trp Gly Cys Met Leu Arg Cys Gly Gln Met Ile		
85	90	95
Phe Ala Gln Ala Leu Val Cys Arg His Leu Gly Arg Asp Trp Arg Trp		
100	105	110
Thr Gln Arg Lys Arg Gln Pro Asp Ser Tyr Phe Ser Val Leu Asn Ala		
115	120	125
Phe Ile Asp Arg Lys Asp Ser Tyr Tyr Ser Ile His Gln Ile Ala Gln		
130	135	140
Met Gly Val Gly Glu Gly Lys Ser Ile Gly Gln Trp Tyr Gly Pro Asn		
145	150	155
Thr Val Ala Gln Val Leu Lys Lys Leu Ala Val Phe Asp Thr Trp Ser		
165	170	175
Ser Leu Ala Val His Ile Ala Met Asp Asn Thr Val Val Met Glu Glu		
180	185	190
Ile Arg Arg Leu Cys Arg Thr Ser Val Pro Cys Ala Gly Ala Thr Ala		
195	200	205
Phe Pro Ala Asp Ser Asp Arg His Cys Asn Gly Phe Pro Ala Gly Ala		
210	215	220
Glu Val Thr Asn Arg Pro Ser Pro Trp Arg Pro Leu Val Leu Ile		
225	230	235
Pro Leu Arg Leu Gly Leu Thr Asp Ile Asn Glu Ala Tyr Val Glu Thr		
245	250	255
Leu Lys His Cys Phe Met Met Pro Gln Ser Leu Gly Val Ile Gly Gly		
260	265	270
Lys Pro Asn Ser Ala His Tyr Phe Ile Gly Tyr Val Gly Glu Glu Leu		
275	280	285
Ile Tyr Leu Asp Pro His Thr Thr Gln Pro Ala Val Glu Pro Thr Asp		
290	295	300
Gly Cys Phe Ile Pro Asp Glu Ser Phe His Cys Gln His Pro Pro Cys		
305	310	315
Arg Met Ser Ile Ala Glu Leu Asp Pro Ser Ile Ala Val Val Arg Gly		
325	330	335
Gly His Leu Ser Thr Gln Ala Phe Gly Ala Glu Cys Cys Leu Gly Met		
340	345	350
Thr Arg Lys Thr Phe Gly Phe Leu Arg Phe Phe Ser Met Leu Gly		
355	360	365
		368

<210> 1355  
<211> 117  
<212>Amino acid  
<213> Homo sapiens

<400> 1355  
Pro Thr Thr Ser Asn Arg Ala Ile Thr Leu Thr Ala Trp Pro Lys Ile  
1 5 10 15  
Pro Phe Leu Gly Ile Cys Glu Ala Lys Asn Pro Arg Ser Glu Asn Met  
20 25 30  
Arg Leu Ala Thr Ile Leu Glu Val Ala Cys His His Leu Gly Ser Gly  
35 40 45  
Pro Pro Pro Ser Trp Glu Leu Trp Glu Gln Gly Pro Pro Gly Asn Ser  
50 55 60  
Ser Arg Tyr Ile Glu Phe Leu Asn Lys His Thr Tyr Ile Lys Gly Thr  
65 70 75 80  
Leu Arg Val Tyr Thr Lys Lys Phe Cys Met Leu Val Ile Lys Ser Phe  
85 90 95  
Glu Ser Lys Ser Cys Val Cys Val Tyr Asp Phe Asp Ser Lys Ser Ser  
100 105 110  
Val Asn Val Thr Val  
115 117

<210> 1356  
<211> 126  
<212>Amino acid  
<213> Homo sapiens

<400> 1356  
Pro Arg Val Arg Phe Arg Leu Leu His Val Thr Ser Ile Arg Ser Ala  
1 5 10 15  
Trp Ile Leu Cys Gly Ile Ile Trp Ile Leu Ile Met Ala Ser Ser Ile  
20 25 30  
Met Leu Leu Asp Ser Gly Ser Glu Gln Asn Gly Ser Val Thr Ser Cys  
35 40 45  
Leu Glu Leu Asn Leu Tyr Lys Ile Ala Lys Leu Gln Thr Val Asn Tyr  
50 55 60  
Ile Ala Leu Val Val Gly Cys Leu Leu Pro Phe Phe Thr Leu Ser Ile  
65 70 75 80  
Cys Tyr Leu Leu Ile Ile Arg Val Leu Leu Lys Val Glu Val Pro Glu  
85 90 95  
Ser Gly Leu Arg Val Ser His Arg Lys Ala Leu Thr Thr Ile Ile Ile  
100 105 110  
Thr Leu Ile Ile Phe Phe Leu Cys Phe Leu Pro Tyr His Thr  
115 120 125 126

<210> 1357  
<211> 222  
<212>Amino acid  
<213> Homo sapiens

<400> 1357

Gly	Arg	His	Trp	Leu	Gly	Ser	Ala	Gln	Leu	Thr	Asp	Gly	Gly	Ser	Ala
1				5					10						15
Arg	Lys	Pro	Lys	Met	Ala	Val	Pro	Ala	Ala	Leu	Ile	Leu	Arg	Glu	Ser
				20					25						30
Pro	Ser	Met	Lys	Lys	Ala	Val	Ser	Leu	Ile	Asn	Ala	Ile	Asp	Thr	Gly
				35				40							45
Arg	Phe	Pro	Arg	Leu	Leu	Thr	Arg	Ile	Leu	Gln	Lys	Leu	His	Leu	Lys
				50				55							60
Ala	Glu	Ser	Ser	Phe	Ser	Glu	Glu	Glu	Glu	Lys	Leu	Gln	Ala	Ala	
				65				70							80
Phe	Ser	Leu	Glu	Lys	Gln	Asp	Leu	His	Leu	Val	Leu	Glu	Thr	Ile	Ser
				85				90							95
Phe	Ile	Leu	Glu	Gln	Ala	Val	Tyr	His	Val	Lys	Pro	Ala	Ala	Leu	
				100				105							110
Gln	Gln	Gln	Ieu	Glu	Asn	Ile	His	Leu	Arg	Gln	Asp	Lys	Ala	Glu	Ala
				115				120							125
Phe	Val	Asn	Thr	Trp	Ser	Ser	Met	Gly	Gln	Glu	Thr	Val	Glu	Lys	Phe
				130				135							140
Arg	Gln	Arg	Ile	Leu	Ala	Pro	Cys	Lys	Leu	Glu	Thr	Val	Gly	Trp	Gln
				145				150							160
Leu	Asn	Leu	Gln	Met	Ala	His	Ser	Ala	Gln	Ala	Lys	Leu	Lys	Ser	Pro
				165				170							175
Gln	Ala	Val	Leu	Gln	Leu	Gly	Val	Asn	Asn	Glu	Asp	Ser	Lys	Ser	Leu
				180				185							190
Glu	Lys	Val	Leu	Val	Glu	Phe	Ser	His	Lys	Glu	Leu	Phe	Asp	Phe	Tyr
				195				200							205
Asn	Lys	Leu	Glu	Thr	Ile	Gln	Ala	Gln	Leu	Asp	Ser	Leu	Thr		
				210				215							220
															222

<210> 1358  
 <211> 116  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1358

Glu	Ala	Ser	Ser	Ala	Lys	Thr	Lys	Arg	Lys	Glu	Glu	Lys	Gly	Pro	Lys
1				5					10						15
Ala	Lys	Met	Lys	Leu	Met	Val	Leu	Val	Phe	Thr	Ile	Gly	Leu	Thr	Leu
				20				25							30
Leu	Leu	Gly	Val	Gln	Ala	Met	Pro	Ala	Asn	Arg	Leu	Ser	Cys	Tyr	Arg
				35				40							45
Lys	Ile	Leu	Lys	Asp	His	Asn	Cys	His	Asn	Leu	Pro	Glu	Gly	Val	Ala
				50				55							60
Asp	Leu	Thr	Gln	Ile	Asp	Val	Asn	Val	Gln	Asp	His	Phe	Trp	Asp	Gly
				65				70							80
Lys	Gly	Cys	Glu	Met	Ile	Cys	Tyr	Cys	Asn	Phe	Ser	Glu	Leu	Leu	Cys
				85				90							95
Cys	Pro	Lys	Asp	Val	Phe	Phe	Gly	Pro	Lys	Ile	Ser	Phe	Val	Ile	Pro
				100				105							110
Cys	Asn	Asn	Gln												
				115				116							

&lt;210&gt; 1359

<211> 466  
<212>Amino acid  
<213> Homo sapiens

<400> 1359  
Lys Met Ala Glu Ala Val Phe His Ala Pro Lys Arg Lys Arg Arg Val  
1 5 10 15  
Tyr Glu Thr Tyr Glu Ser Pro Leu Pro Ile Pro Phe Gly Gln Asp His  
20 25 30  
Gly Pro Leu Lys Glu Phe Lys Ile Phe Arg Ala Glu Met Ile Asn Asn  
35 40 45  
Asn Val Ile Val Arg Asn Ala Glu Asp Ile Glu Gln Leu Tyr Gly Lys  
50 55 60  
Gly Tyr Phe Gly Lys Gly Ile Leu Ser Arg Ser Arg Pro Ser Phe Thr  
65 70 75 80  
Ile Ser Asp Pro Lys Ile Val Ala Lys Trp Lys Asp Met Lys Thr Asn  
85 90 95  
Met Pro Ile Ile Thr Ser Lys Arg Tyr Gln His Ser Val Glu Trp Ala  
100 105 110  
Ala Glu Leu Met Arg Arg Gln Gly Lys Asp Glu Ser Thr Val Arg Arg  
115 120 125  
Ile Leu Lys Asp Tyr Thr Lys Pro Leu Glu His Pro Pro Val Lys Arg  
130 135 140  
Asn Glu Glu Ala Gln His Asp Lys Leu Asn Ser Gly Met Val Ser  
145 150 155 160  
Asn Met Glu Gly Thr Ala Gly Gly Glu Arg Pro Ser Val Val Asn Gly  
165 170 175  
Asp Ser Gly Lys Ser Gly Gly Val Gly Asp Pro Arg Glu Pro Leu Gly  
180 185 190  
Cys Leu Gln Glu Gly Ser Gly Cys His Pro Thr Thr Glu Ser Phe Glu  
195 200 205  
Lys Ser Val Arg Glu Asp Ala Ser Pro Leu Pro His Val Cys Cys Cys  
210 215 220  
Lys Gln Asp Ala Leu Ile Leu Gln Arg Gly Leu His His Glu Asp Gly  
225 230 235 240  
Ser Gln His Ile Gly Leu Leu His Pro Gly Asp Arg Gly Pro Asp His  
245 250 255  
Glu Tyr Val Leu Val Glu Glu Ala Glu Cys Ala Met Ser Glu Arg Glu  
260 265 270  
Ala Ala Pro Asn Glu Glu Leu Val Gln Arg Asn Arg Leu Ile Cys Arg  
275 280 285  
Arg Asn Pro Tyr Arg Ile Phe Glu Tyr Leu Gln Leu Ser Leu Glu Glu  
290 295 300  
Ala Phe Phe Leu Val Tyr Ala Leu Gly Cys Leu Ser Ile Tyr Tyr Glu  
305 310 315 320  
Lys Glu Pro Leu Thr Ile Val Lys Leu Trp Lys Ala Phe Thr Val Val  
325 330 335  
Gln Pro Thr Phe Arg Thr Thr Tyr Met Ala Tyr His Tyr Phe Arg Ser  
340 345 350  
Lys Gly Trp Val Pro Lys Val Gly Leu Lys Tyr Gly Thr Asp Leu Leu  
355 360 365  
Leu Tyr Arg Lys Gly Pro Pro Phe Tyr His Ala Ser Tyr Ser Val Ile  
370 375 380  
Ile Glu Ile Val Asp Asp His Phe Glu Gly Ser Leu Arg Arg Pro Leu  
385 390 395 400  
Ser Trp Lys Ser Leu Ala Ala Leu Ser Arg Val Ser Val Asn Val Ser  
405 410 415 420  
Lys Glu Leu Met Leu Cys Tyr Leu Ile Lys Pro Ser Thr Met Thr Asp  
420 425 430  
Lys Glu Met Glu Ser Pro Glu Cys Met Lys Arg Ile Lys Val Gln Glu

435	440	445
Val Ile Leu Ser Arg Trp Val	Ser Ser Arg Glu Arg Ser Asp Gln Asp	
450	455	460
Asp Leu		
465	466	

<210> 1360  
<211> 419  
<212>Amino acid  
<213> Homo sapiens

<400> 1360		
Arg Asp Ile Trp Thr Met Asn Leu Gln Arg Tyr Trp Gly Glu Ile Pro		
1	5	10
Ile Ser Ser Ser Gln Thr Asn Arg Ser Ser Phe Asp Leu Leu Pro Arg		
20	25	30
Glu Phe Arg Leu Val Glu Val His Asp Pro Pro Leu His Gln Pro Ser		
35	40	45
Ala Asn Lys Pro Lys Pro Pro Thr Met Leu Asp Ile Pro Ser Glu Pro		
50	55	60
Cys Ser Leu Thr Ile His Thr Ile Gln Leu Ile Gln His Asn Arg Arg		
65	70	75
Leu Arg Asn Leu Ile Ala Thr Ala Gln Ala Gln Asn Gln Gln Thr		
85	90	95
Glu Gly Val Lys Thr Glu Glu Ser Glu Pro Leu Pro Ser Cys Pro Gly		
100	105	110
Ser Pro Pro Leu Pro Asp Asp Leu Ile Pro Leu Asp Cys Lys Asn Pro		
115	120	125
Asn Ala Pro Phe Gln Ile Arg His Ser Asp Pro Glu Ser Asp Phe Tyr		
130	135	140
Arg Gly Lys Gly Glu Pro Val Thr Glu Leu Ser Trp His Ser Cys Arg		
145	150	155
Gln Leu Leu Tyr Gln Ala Val Ala Thr Ile Leu Ala His Ala Gly Phe		
165	170	175
Asp Cys Ala Asn Glu Ser Val Leu Glu Thr Leu Thr Asp Val Ala His		
180	185	190
Glu Tyr Cys Leu Lys Phe Thr Lys Leu Leu Arg Phe Ala Val Asp Arg		
195	200	205
Glu Ala Arg Leu Gly Gln Thr Pro Phe Pro Asp Val Met Glu Gln Val		
210	215	220
Phe His Glu Val Gly Ile Gly Ser Val Leu Ser Leu Gln Lys Phe Trp		
225	230	235
Gln His Arg Ile Lys Asp Tyr His Ser Tyr Met Leu Gln Ile Ser Lys		
245	250	255
Gln Leu Ser Glu Glu Tyr Glu Arg Ile Val Asn Pro Glu Lys Ala Thr		
260	265	270
Glu Asp Ala Lys Pro Val Lys Ile Lys Glu Glu Pro Val Ser Asp Ile		
275	280	285
Thr Phe Pro Val Ser Glu Glu Leu Glu Ala Asp Leu Ala Ser Gly Asp		
290	295	300
Gln Ser Leu Pro Met Gly Val Leu Gly Ala Gln Ser Glu Arg Phe Pro		
305	310	315
Ser Asn Leu Glu Val Glu Ala Ser Pro Gln Ala Ser Ser Ala Glu Val		
325	330	335
Asn Ala Ser Pro Leu Trp Asn Leu Ala His Val Lys Met Glu Pro Gln		
340	345	350
Glu Ser Glu Glu Gly Asn Val Ser Gly His Gly Val Leu Gly Ser Asp		
355	360	365
Val Phe Glu Glu Pro Met Ser Gly Met Ser Glu Ala Gly Ile Pro Gln		

370	375	380
Ser Pro Asp Asp Ser Asp Ser Ser Tyr Gly Ser His Ser Thr Asp Ser		
385	390	395
Leu Met Gly Ser Ser Pro Val Phe Asn Gln Arg Cys Lys Lys Arg Met		
405	410	415
Arg Lys Ile		
419		

<210> 1361  
<211> 220  
<212>Amino acid  
<213> Homo sapiens

<400> 1361		
Arg Glu Gln Ile Leu Phe Ile Glu Ile Arg Asp Thr Ala Lys Gly Gly		
1	5	10
Glu Thr Glu Gln Pro Pro Ser Leu Ser Pro Leu His Gly Gly Arg Met		
20	25	30
Pro Glu Met Gly Glu Gly Ile Gln Ser Leu Ala Arg Glu Thr Gln Ser		
35	40	45
His Arg Gly Arg Arg Gln Gly Trp Asp Ala Thr Trp Val Thr Arg Cys		
50	55	60
Arg Glu Ser Leu Asn Arg Gly Gly Ala Gly Gly Lys Arg Ala Gly		
65	70	75
Ala Leu Ala His His Val Phe Leu Ala Leu Ile Glu Pro Asn Leu Ala		
85	90	95
Glu Arg Glu Ala Ser Glu Glu Glu Val Lys Ala Cys Ser Asp Glu Thr		
100	105	110
Val Val Ala Asp Leu Leu Val Lys Val Val Tyr Val Leu Gly Ala Ile		
115	120	125
Leu Lys Ile Phe Leu Arg Glu Gly Asn Val Leu Asn Gln His Ser Gly		
130	135	140
Met Asp Ile Glu Lys Tyr Ser Glu His Tyr Gln His Asp His Ser Pro		
145	150	155
Gly Ala Glu Asp Asp Ala Ala Gly Gly Gln Leu Arg Pro Thr Ala Gln		
165	170	175
Glu Arg Arg His Lys Glu Gly Ser Arg Gly Ser Pro Arg Cys Lys Arg		
180	185	190
Ala Arg Lys Ala Val Gly Glu Ser Pro Gly Cys Pro Arg Pro Arg Val		
195	200	205
Arg Pro Arg Val Arg Pro Arg Val Arg Pro Arg Val		
210	215	220

<210> 1362  
<211> 82  
<212>Amino acid  
<213> Homo sapiens

<400> 1362		
Gly Thr Arg Gly Cys Cys Arg Glu Gly Thr Ala Tyr Ala Lys Ala Tyr		
1	5	10
Gln Phe Met Ala Ser His Leu Ser Leu Gly Lys Pro Val Ser Thr Gly		
20	25	30
Ser Ile Pro Arg Phe Asn Lys Ala Leu Phe Asn Lys Gln Ala Lys Cys		

35	40	45
Lys Pro Asn His Tyr Ser Phe Ile Gly Leu Ser Met		Leu Ser Pro Glu
50	55	60
Asn Phe Ser Ile Gly Cys Tyr Ser Val Trp Phe Ser Glu Thr Lys		
65	70	75
Gly Phe		80
82		

<210> 1363  
<211> 143  
<212>Amino acid  
<213> Homo sapiens

<400> 1363		
Gly Ala Gln Gly Val Arg Val Gly Ile Gly Glu Val Gly Arg Val Gln		
1	5	10
Ala Pro Arg Val Ser Leu Leu His Ser Gln Gly Val Pro Arg Gly Gly		15
20	25	30
Thr Gly Glu Ala Val Lys Glu Glu Gly Arg Gly Ser Ser Leu His Pro		
35	40	45
Pro Leu Pro Pro Gln Gly Leu Gly Glu Tyr Ala Ala Cys Gln Ser His		
50	55	60
Ala Phe Met Lys Gly Val Phe Thr Phe Val Thr Gly Thr Gly Met Ala		
65	70	75
Phe Gly Leu Gln Met Phe Ile Gln Arg Lys Phe Pro Tyr Pro Leu Gln		80
85	90	95
Trp Ser Leu Leu Val Ala Val Val Ala Gly Ser Val Val Ser Tyr Gly		
100	105	110
Val Thr Arg Val Glu Ser Glu Lys Cys Asn Asn Leu Trp Leu Phe Leu		
115	120	125
Glu Thr Gly Gln Leu Pro Lys Asp Arg Ser Thr Asp Gln Arg Ser		
130	135	140
		143

<210> 1364  
<211> 194  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(194)  
<223> X = any amino acid or stop code

<400> 1364		
Gly Thr Ser Glu Leu Leu Cys Ile Gln Arg Trp Asn Trp Gly Pro Ala		
1	5	10
Phe Pro Pro Arg Pro Gly Leu Ala Leu Ala Pro Thr Leu Gln Leu Leu		15
20	25	30
Val Glu Met Gly Ser Ala Lys Ser Val Pro Val Thr Pro Ala Arg Pro		
35	40	45
Pro Pro His Asn Lys His Leu Ala Arg Val Ala Asp Pro Arg Ser Pro		
50	55	60
Ser Ala Gly Ile Leu Arg Thr Pro Ile Gln Val Glu Ser Ser Pro Gln		
65	70	75
		80

Pro Gly Leu Pro Ala Gly Glu Gln Leu Glu Gly Leu Lys His Ala Gln  
                   85                  90                  95  
 Asp Ser Asp Pro Arg Ser Pro Leu Gly Lys Asn Xaa Gly His Gly Trp  
                   100              105                  110  
 Gln Val Gly Gln Gly Ser Asp Leu Gly Ser Pro Gln Pro Leu Pro Pro  
                   115              120                  125  
 Ser Ala Ser His Leu Tyr Ser Ser Arg Ala Ser Arg Cys Ser Gln Pro  
                   130              135                  140  
 Pro Cys Leu Ser Leu Pro Trp Phe Gly Val Arg Ser Ser Pro Ala Asn  
                   145              150                  155                  160  
 Thr Tyr His Val Pro Val Thr Ser Leu Cys Pro Ser Pro Ala Leu His  
                   165              170                  175  
 Tyr Thr Ala Leu Gln Ala Gly Ile Ile Ser Thr Ser Gln Ala Arg Ala  
                   180              185                  190  
 Pro Arg  
                   194

<210> 1365  
<211> 114  
<212>Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> (1)...(114)  
<223> X = any amino acid or stop code

<400> 1365  
 Pro Leu Leu Pro Arg Phe Ile Asp Ile Pro Cys Leu Leu Cys Tyr  
   1                  5                  10                  15  
 Leu Thr Gln Val Thr Pro Asp Asp Met Tyr Ala Lys Ala Phe Leu Ile  
   20                  25                  30  
 Lys Pro Asn Thr Ala Ile Thr Gly Thr Asp Arg Arg Lys Leu Arg Ala  
   35                  40                  45  
 Asp Glu Thr Thr Asp Pro Phe Leu Gly Thr Asp Gln Ile Tyr Glu  
   50                  55                  60  
 Leu Leu Pro Gly Lys Asp Glu Leu Asn Ile Val Lys Ser Asn Ala His  
   65                  70                  75                  80  
 Lys Arg Asp Ala Xaa Thr Ala Tyr Val Ser Gly Glu Asn His Ile Leu  
   85                  90                  95  
 Ser Glu Pro Xaa Lys Asn Leu Tyr Pro Ala Val Asn Thr Leu Ser Ser  
   100                  105                  110  
 Tyr Pro  
                   114

<210> 1366  
<211> 80  
<212>Amino acid  
<213> Homo sapiens

<400> 1366  
 Ser Arg Gln Pro Pro Pro Leu Leu Thr Met Val Phe Leu Leu Glu Phe  
   1                  5                  10                  15  
 Leu Phe Leu Val Phe Phe Pro Gly Cys Val Asn Gln Leu Leu Leu Ser

Tyr	Pro	Trp	Gln	Gly	Gln	Gly	Thr	Ser	Leu	Trp	Ser	Ser	Leu	Ser	Phe
20							25							30	
		35					40							45	
His	Trp	Leu	Leu	Pro	Gln	Glu	Asp	Ser	Ser	Arg	Leu	Ser	Ile	Phe	Pro
		50					55							60	
Leu	Arg	Ala	Gly	Ser	Pro	Pro	Gln	Pro	Ala	Gln	Ala	Pro	Gln	Arg	Ile
		65					70							75	
															80

<210> 1367  
<211> 301  
<212>Amino acid  
<213> Homo sapiens

Lys	Ser	Arg	Glu	Gln	Ser	Ser	Leu	Phe	Ala	Ala	Asp	Ala	Glu	Arg	Ser
1							5				10			15	
Trp	Gly	Gly	Lys	Ser	Cys	Cys	Leu	Leu	Arg	Trp	Arg	Phe	Val	Gly	Lys
							20				25			30	
Ala	Ser	His	Phe	Pro	Arg	Leu	Leu	Pro	Leu	Pro	Gly	Glu	Glu	Arg	Pro
							35				40			45	
Glu	Thr	Lys	Glu	Arg	Ala	Trp	Lys	Met	Glu	Gln	Thr	Trp	Thr	Arg	Asp
							50				55			60	
Tyr	Phe	Ala	Glu	Asp	Asp	Gly	Glu	Met	Val	Pro	Arg	Thr	Ser	His	Thr
							65				70			75	
Ala	Ala	Ser	Val	Ser	Leu	Thr	Ala	Phe	Ieu	Ser	Asp	Thr	Lys	Asp	Arg
							85				90			95	
Gly	Pro	Pro	Val	Gln	Ser	Gln	Ile	Trp	Arg	Ser	Gly	Glu	Lys	Val	Pro
				100			105							110	
Phe	Val	Gln	Thr	Tyr	Ser	Leu	Arg	Ala	Phe	Glu	Lys	Pro	Pro	Gln	Val
				115			120							125	
Gln	Thr	Gln	Ala	Leu	Arg	Asp	Phe	Glu	Lys	His	Leu	Asn	Asp	Leu	Lys
				130			135							140	
Lys	Glu	Asn	Phe	Ser	Leu	Lys	Leu	Leu	Ile	Tyr	Phe	Leu	Glu	Glu	Arg
				145			150							155	
Met	Gln	Gln	Lys	Tyr	Glu	Ala	Ser	Arg	Glu	Asp	Ile	Tyr	Lys	Arg	Asn
				165			170							175	
Thr	Glu	Leu	Lys	Val	Glu	Val	Glu	Ser	Leu	Lys	Arg	Glu	Leu	Gln	Asp
				180			185							190	
Lys	Lys	Gln	His	Leu	Asp	Lys	Thr	Trp	Ala	Asp	Val	Glu	Asn	Leu	Asn
				195			200							205	
Ser	Gln	Asn	Glu	Ala	Glu	Leu	Arg	Arg	Gln	Phe	Glu	Glu	Arg	Gln	Gln
				210			215							220	
Glu	Met	Glu	His	Val	Tyr	Glu	Leu	Leu	Asn	Lys	Met	Gln	Leu	Leu	
				225			230							235	
Gln	Glu	Glu	Ser	Arg	Leu	Ala	Lys	Asn	Glu	Ala	Ala	Arg	Met	Ala	Ala
				245			245							250	
Leu	Val	Glu	Ala	Glu	Lys	Glu	Cys	Asn	Leu	Glu	Leu	Ser	Glu	Lys	Leu
				260			265							270	
Lys	Gly	Val	Thr	Lys	Asn	Trp	Glu	Asp	Val	Pro	Gly	Asp	Gln	Val	Lys
				275			280							285	
Pro	Asp	Gln	Tyr	Thr	Glu	Ala	Leu	Ala	Gln	Arg	Asp	Lys			
				290			295							300	301

<210> 1368  
<211> 308  
<212>Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(308)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1368

Thr	Arg	Arg	Arg	Gly	Thr	Thr	Trp	Arg	Ser	Pro	Arg	Pro	Arg	Arg	Ala
1					5				10				15		
Ser	Thr	Ser	Arg	Pro	Ser	Thr	Arg	Pro	Arg	Gly	Val	Ala	Ser	Trp	Pro
					20				25				30		
Trp	Glu	Thr	Ala	Gly	Thr	Ala	Thr	Thr	Gly	Pro	Gly	Pro	Ser	Ala	Arg
	35					40				45					
Thr	Arg	Arg	Arg	Ala	Ala	Arg	Arg	Arg	Arg	Ser	Arg	Pro	Arg	Arg	Arg
	50					55				60					
Ala	His	Gly	Gly	Leu	Ser	Gln	Pro	Ala	Gly	Trp	Gln	Ser	Leu	Leu	Ser
	65					70				75				80	
Phe	Thr	Ile	Leu	Phe	Leu	Ala	Trp	Leu	Ala	Gly	Phe	Ser	Ser	Arg	Leu
					85				90				95		
Phe	Ala	Val	Ile	Arg	Phe	Glu	Ser	Ile	Ile	His	Glu	Phe	Asp	Pro	Trp
		100				105				110					
Phe	Asn	Tyr	Arg	Ser	Thr	His	His	Leu	Ala	Ser	His	Gly	Phe	Tyr	Glu
	115					120				125					
Phe	Leu	Asn	Trp	Phe	Asp	Glu	Arg	Ala	Trp	Tyr	Pro	Leu	Gly	Arg	Ile
	130					135				140					
Val	Gly	Gly	Thr	Val	Tyr	Pro	Gly	Leu	Met	Ile	Thr	Ala	Gly	Leu	Ile
	145					150				155				160	
His	Trp	Ile	Leu	Asn	Thr	Leu	Asn	Ile	Thr	Val	His	Ile	Arg	Asp	Val
		165					170				175				
Cys	Val	Phe	Leu	Ala	Pro	Thr	Phe	Ser	Gly	Leu	Thr	Ser	Ile	Ser	Thr
	180					185				190					
Phe	Leu	Leu	Thr	Arg	Glu	Leu	Trp	Asn	Gln	Gly	Ala	Gly	Leu	Leu	Ala
	195					200				205					
Ala	Cys	Phe	Ile	Ala	Ile	Val	Pro	Gly	Tyr	Ile	Ser	Arg	Ser	Val	Ala
	210					215				220					
Gly	Ser	Phe	Asp	Asn	Glu	Gly	Ile	Ala	Ile	Phe	Ala	Leu	Gln	Phe	Thr
	225					230				235				240	
Tyr	Tyr	Leu	Trp	Val	Lys	Ser	Val	Lys	Thr	Gly	Ser	Val	Phe	Trp	Thr
		245					250			255					
Met	Cys	Cys	Cys	Leu	Ser	Tyr	Phe	Tyr	Met	Val	Ser	Ala	Trp	Gly	Gly
	260					265				270					
Tyr	Val	Phe	Ile	Ile	Asn	Leu	Ile	Pro	Leu	His	Ala	Phe	Val	Leu	Val
	275					280				285					
Leu	Met	Gln	Arg	Tyr	Ser	Lys	Arg	Val	Tyr	Ile	Xaa	Tyr	Ser	Thr	Phe
	290					295				300					
Tyr	Ile	.Val	Gly												
	305					308									

&lt;210&gt; 1369

&lt;211&gt; 212

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1369

Arg Arg Leu Ile Val Val Leu Ser Asp Ala Phe Leu Ser Arg Ala Trp  
 1               5               10               15  
 Cys Ser His Ser Phe Arg Val Gly Pro Ala Arg Gly Trp Val Gly Pro  
 20               25               30  
 Ser Val Ala Pro Thr Pro Leu Thr Val Pro Pro Arg Arg Glu Gly Leu  
 35               40               45  
 Cys Arg Leu Leu Glu Leu Thr Arg Arg Pro Ile Phe Ile Thr Phe Glu  
 50               55               60  
 Gly Gln Arg Arg Asp Pro Ala His Pro Ala Leu Arg Leu Leu Arg Gln  
 65               70               75               80  
 His Arg His Leu Val Thr Leu Leu Leu Trp Arg Pro Gly Ser Val Thr  
 85               90               95  
 Pro Ser Ser Asp Phe Trp Lys Glu Val Gln Leu Ala Leu Pro Arg Lys  
 100              105              110  
 Val Arg Tyr Arg Pro Val Glu Gly Asp Pro Gln Thr Gln Leu Gln Asp  
 115              120              125  
 Asp Lys Asp Pro Met Leu Ile Leu Arg Gly Arg Val Pro Glu Gly Arg  
 130              135              140  
 Ala Leu Asp Ser Glu Val Asp Pro Asp Pro Glu Gly Asp Leu Gly Val  
 145              150              155              160  
 Arg Gly Pro Val Phe Gly Glu Pro Ser Ala Pro Pro His Thr Ser Gly  
 165              170              175  
 Val Ser Leu Gly Glu Ser Arg Ser Ser Glu Val Asp Val Ser Asp Leu  
 180              185              190  
 Gly Ser Arg Asn Tyr Ser Ala Arg Thr Asp Phe Tyr Cys Leu Val Ser  
 195              200              205  
 Lys Asp Asp Met  
 210              212

<210> 1370  
 <211> 281  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1370  
 Leu Ser His Glu Gly Trp Arg Arg Gly Arg Glu Gly Glu Arg Ile Asn  
 1               5               10               15  
 Ser Ser Val Ala Ser Leu Ala Pro Leu Cys Ile Leu Pro Asp Leu Pro  
 20              25              30  
 Ser Asn Met His Leu Ala Arg Leu Val Gly Ser Cys Ser Leu Leu Leu  
 35              40              45  
 Leu Leu Gly Ala Leu Ser Gly Trp Ala Ala Ser Asp Asp Pro Ile Glu  
 50              55              60  
 Lys Val Ile Glu Gly Ile Asn Arg Gly Leu Ser Asn Ala Glu Arg Glu  
 65              70              75              80  
 Val Gly Lys Ala Leu Asp Gly Ile Asn Ser Gly Ile Thr His Ala Gly  
 85              90              95  
 Arg Glu Val Glu Lys Val Phe Asn Gly Leu Ser Asn Met Gly Ser His  
 100             105             110  
 Thr Gly Lys Glu Leu Asp Lys Gly Val Gln Gly Leu Asn His Gly Met  
 115             120             125  
 Asp Lys Val Ala His Glu Ile Asn His Gly Ile Gly Gln Ala Gly Lys  
 130             135             140  
 Glu Ala Glu Lys Leu Gly His Gly Val Asn Asn Ala Ala Gly Gln Ala  
 145             150             155             160  
 Gly Lys Glu Ala Asp Lys Ala Val Gln Gly Phe His Thr Gly Val His  
 165             170             175  
 Gln Ala Gly Lys Glu Ala Glu Lys Leu Gly Gln Gly Val Asn His Ala  
 180             185             190

Ala Asp Gln Ala Gly Lys Glu Val Glu Lys Leu Gly Gln Gly Ala His  
 195 200 205  
 His Ala Ala Gly Gln Ala Gly Lys Glu Leu Gln Asn Ala His Asn Gly  
 210 215 220  
 Val Asn Gln Ala Ser Lys Glu Ala Asn Gln Leu Leu Asn Gly Asn His  
 225 230 235 240  
 Gln Ser Gly Ser Ser His Gln Gly Gly Ala Thr Thr Thr Pro Leu  
 245 250 255  
 Ala Ser Gly Ala Ser Val Asn Thr Pro Phe Ile Asn Leu Pro Ala Leu  
 260 265 270  
 Trp Arg Ser Val Ala Asn Ile Met Pro  
 275 280 281

<210> 1371  
<211> 119  
<212>Amino acid  
<213> Homo sapiens

<400> 1371  
 Ser Ala Ser Gly Gly Leu Gly Met Thr Val Glu Gly Pro Glu Gly Ser  
 1 5 10 15  
 Glu Arg Glu His Arg Pro Pro Glu Lys Pro Pro Arg Pro Pro Arg Pro  
 20 25 30  
 Leu His Leu Ser Asp Arg Ser Phe Arg Arg Lys Lys Asp Ser Val Glu  
 35 40 45  
 Ser His Pro Thr Trp Val Asp Asp Thr Arg Ile Asp Ala Asp Ala Ile  
 50 55 60  
 Val Glu Lys Ile Val Gln Ser Gln Asp Phe Thr Asp Gly Ser Asn Thr  
 65 70 75 80  
 Glu Asp Ser Asn Leu Arg Leu Phe Val Ser Arg Asp Gly Ser Ala Thr  
 85 90 95  
 Leu Ser Gly Ile Gln Leu Ala Thr Arg Val Ser Ser Gly Val Tyr Glu  
 100 105 110  
 Pro Val Val Ile Glu Ser His  
 115 119

<210> 1372  
<211> 108  
<212>Amino acid  
<213> Homo sapiens

<400> 1372  
 Glu Arg Ser Gly Trp Pro Gln Pro Glu Gly Thr Val Thr Ala Gln Gly  
 1 5 10 15  
 Pro Leu Phe Trp Glu Arg Leu Ser Gly Ala Val Thr Val Ser Ser Gly  
 20 25 30  
 Tyr Lys Ala Asp Met Trp Pro Ser Phe Pro Gln Val Arg Val Gly Ser  
 35 40 45  
 Phe Leu Phe Gly Ile Leu Phe Phe Ser Phe Gly Ser Ser Ser Leu Pro  
 50 55 60  
 Pro Gly Leu Pro Pro Pro Ala Ser Leu Leu Cys Cys Ala Val Gln Trp  
 65 70 75 80  
 Gly Ala Arg Ala Leu Phe Leu Pro Cys Leu Lys Glu Arg Ala Leu Gly  
 85 90 95

Met Glu Met Arg Asn Asn Thr Leu Ser Phe Arg Gln  
 100 105 108

<210> 1373  
<211> 209  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(209)  
<223> X = any amino acid or stop code

<400> 1373  
Ser Ser Ser Asn Leu Arg Leu Ser Phe Leu Ile Asn Glu Asn Ile Leu  
1 5 10 15  
Gly Lys Cys Phe Arg Ser Gly Pro Ser Cys Ala Gly Pro Arg Ile Ser  
20 25 30  
Pro Leu Ala Ala Gln Tyr Glu Cys Pro Arg Pro Ser Leu Leu Ile Met  
35 40 45  
Ala Ser Val Pro Lys Thr Asn Lys Ile Glu Pro Arg Ser Tyr Ser Ile  
50 55 60  
Ile Pro Ser Cys Gly Ile Arg Arg Leu Gly Pro Ala Leu Asn Thr Leu  
65 70 75 80  
Ile Phe Gln Ser Lys Arg Phe Gly Pro Arg Gly His Ser Ala Lys Ser  
85 90 95  
Ile Glu Gly Ala Pro Arg Gly Lys Gly Arg Gly Arg Ala Val Ala Arg  
100 105 110  
Leu Ala Ala Asp Arg Pro Pro Ala Pro Lys Ile Gln Leu Arg Ala Phe  
115 120 125  
Xaa Leu Gln Gln Leu Xaa Tyr Thr Leu Leu Glu Leu Glu Leu Pro Arg  
130 135 140  
Leu Leu Ala Pro Asp Leu Pro Ser Asn Gly Ser Ser Leu Lys Asp Leu  
145 150 155 160  
Lys Trp Thr His Ser Asn Tyr Arg Ala Ser Lys Glu Ser Cys Ile Val  
165 170 175  
Ile Phe Val Thr Thr Ser Pro Gly Arg Glu Trp Val Ile Cys Ala Leu  
180 185 190  
Ala Ala Phe Leu Gly Cys Gly Ser Leu Ser Gln Ala Pro Ser Pro Glu  
195 200 205  
Ser  
209

<210> 1374  
<211> 153  
<212>Amino acid  
<213> Homo sapiens

<400> 1374  
Leu Arg Ile Ile Asn Thr Tyr Phe Cys Phe Lys Phe Leu Ile Val Asn  
1 5 10 15  
Tyr Ile His Gly Thr Thr Lys Ala Arg Lys Pro His Val Leu Gly Glu  
20 25 30  
Ser Leu Ile Ser Ala Met Ser Arg Gln Glu Pro Lys Met Phe Val Leu

35	40	45
Leu Tyr Val Thr Ser Phe Ala Ile Cys Ala Ser Gly Gln Pro Arg Gly		
50	55	60
Asn Gln Leu Lys Gly Glu Asn Tyr Ser Pro Arg Tyr Ile Cys Ser Ile		
65	70	75
Pro Gly Leu Pro Pro Gly Pro Pro Gly Ala Asn Gly Ser Pro		
85	90	95
Gly Pro His Gly Arg Ile Gly Leu Pro Gly Arg Asp Gly Arg Asp Gly		
100	105	110
Arg Lys Gly Glu Lys Gly Glu Lys Gly Thr Ala Gly Leu Arg Gly Lys		
115	120	125
Thr Gly Pro Leu Gly Leu Ala Gly Glu Lys Gly Asp Gln Gly Glu Thr		
130	135	140
Gly Lys Lys Gly Pro Ile Gly Pro Glu		
145	150	153

<210> 1375  
 <211> 149  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1375			
Phe Ala Ser Ala Met Leu Gly Ser Arg Val Asp Arg Pro Lys Leu Ser			
1	5	10	15
Val Ala Pro Ser Val Val Leu Glu Glu Asp Gln Val Leu Val Ser Pro			
20	25	30	
Ala Val Asp Leu Glu Ala Gly Cys Arg Leu Arg Asp Phe Thr Glu Lys			
35	40	45	
Ile Met Asn Val Lys Gly Lys Val Ile Leu Ser Met Leu Val Val Ser			
50	55	60	
Thr Val Ile Ile Val Phe Trp Glu Phe Ile Asn Ser Thr Glu Gly Ser			
65	70	75	80
Phe Leu Trp Ile Tyr His Ser Lys Asn Pro Glu Val Asp Asp Ser Ser			
85	90	95	
Ala Gln Lys Gly Trp Trp Phe Leu Ser Trp Phe Asn Asn Gly Ile His			
100	105	110	
Asn Tyr Gln Gln Gly Glu Glu Asp Ile Asp Lys Glu Lys Gly Arg Glu			
115	120	125	
Glu Thr Lys Gly Arg Lys Met Thr Gln Gln Ser Phe Gly Tyr Gly Thr			
130	135	140	
Gly Leu Ile Gln Thr			
145	149		

<210> 1376  
 <211> 416  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1376			
Gly Ser His Arg Phe Ser Leu Ala Ser Pro Leu Asp Pro Glu Val Gly			
1	5	10	15
Pro Tyr Cys Asp Thr Pro Thr Met Arg Thr Leu Phe Asn Leu Leu Trp			
20	25	30	
Leu Ala Leu Ala Cys Ser Pro Val His Thr Thr Leu Ser Lys Ser Asp			

35	40	45
Ala Lys Lys Ala Ala Ser Lys Thr Leu Leu Glu Lys Ser Gln Phe Ser		
50	55	60
Asp Lys Pro Val Gln Asp Arg Gly Leu Val Val Thr Asp Leu Lys Ala		
65	70	75
Glu Ser Val Val Leu Glu His Arg Ser Tyr Cys Ser Ala Lys Ala Arg		80
85	90	95
Asp Arg His Phe Ala Gly Asp Val Leu Gly Tyr Val Thr Pro Trp Asn		
100	105	110
Ser His Gly Tyr Asp Val Thr Lys Val Phe Gly Ser Lys Phe Thr Gln		
115	120	125
Ile Ser Pro Val Trp Leu Gln Leu Lys Arg Arg Gly Arg Glu Met Phe		
130	135	140
Glu Val Thr Gly Leu His Asp Val Asp Gln Gly Trp Met Arg Ala Val		
145	150	155
Arg Lys His Ala Lys Gly Leu His Ile Val Pro Arg Leu Leu Phe Glu		160
165	170	175
Asp Trp Thr Tyr Asp Asp Phe Arg Asn Val Leu Asp Ser Glu Asp Glu		
180	185	190
Ile Glu Glu Ile Ser Lys Thr Val Val Gln Val Ala Lys Asn Gln His		
195	200	205
Phe Asp Gly Phe Val Val Glu Val Trp Asn Gln Leu Leu Ser Gln Lys		
210	215	220
Arg Val Gly Leu Ile His Met Leu Thr His Leu Ala Glu Ala Leu His		
225	230	235
Gln Ala Arg Leu Leu Ala Leu Leu Val Ile Pro Pro Ala Ile Thr Pro		240
245	250	255
Gly Thr Asp Gln Leu Gly Met Phe Thr His Lys Glu Phe Glu Gln Leu		
260	265	270
Ala Pro Val Leu Asp Gly Phe Ser Leu Met Thr Tyr Asp Tyr Ser Thr		
275	280	285
Ala His Gln Pro Gly Pro Asn Ala Pro Leu Ser Trp Val Arg Ala Cys		
290	295	300
Val Gln Val Leu Asp Pro Lys Ser Lys Trp Arg Ser Lys Ile Leu Leu		
305	310	315
Gly Leu Asn Phe Tyr Gly Met Asp Tyr Ala Thr Ser Lys Asp Ala Arg		
325	330	335
Glu Pro Val Val Gly Ala Arg Tyr Ile Gln Thr Leu Lys Asp His Arg		
340	345	350
Pro Arg Met Val Trp Asp Ser Gln Val Ser Glu His Phe Phe Glu Tyr		
355	360	365
Lys Lys Ser Arg Ser Gly Arg His Val Val Phe Tyr Pro Thr Leu Lys		
370	375	380
Ser Leu Gln Val Arg Leu Glu Leu Ala Arg Glu Leu Gly Val Gly Val		
385	390	395
Ser Ile Trp Glu Leu Gly Gln Gly Leu Asp Tyr Phe Tyr Asp Leu Leu		400
405	410	415 416

<210> 1377  
 <211> 316  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1377  
 Gly Arg Glu Gly Thr Gly Trp Gly Pro Ala Met Ser Glu Val Thr Arg  
 1 5 10 15  
 Ser Leu Leu Gln Arg Trp Gly Ala Ser Phe Arg Arg Gly Ala Asp Phe

	20	25	30
Asp Ser Trp Gly Gln Leu Val Glu Ala Ile Asp Glu Tyr Gln Ile Leu			
35	40	45	
Ala Arg His Leu Gln Lys Glu Ala Gln Ala Gln His Asn Asn Ser Glu			
50	55	60	
Phe Thr Glu Glu Gln Lys Glu Thr Ile Gly Lys Ile Ala Thr Cys Leu			
65	70	75	80
Glu Leu Arg Ser Ala Ala Leu Gln Ser Thr Gln Ser Gln Glu Glu Phe			
85	90	95	
Lys Leu Glu Asp Leu Lys Lys Leu Glu Pro Ile Leu Lys Asn Ile Leu			
100	105	110	
Thr Tyr Asn Lys Glu Phe Pro Phe Asp Val Gln Pro Val Pro Leu Arg			
115	120	125	
Arg Ile Leu Ala Pro Gly Glu Glu Glu Asn Leu Glu Phe Glu Glu Asp			
130	135	140	
Glu Glu Glu Gly Gly Ala Gly Ala Gly Ser Pro Asp Ser Phe Pro Ala			
145	150	155	160
Arg Val Pro Gly Thr Leu Leu Pro Arg Leu Pro Ser Glu Pro Gly Met			
165	170	175	
Thr Leu Leu Thr Ile Arg Ile Glu Lys Ile Gly Leu Lys Asp Ala Gly			
180	185	190	
Gln Cys Ile Asn Pro Tyr Ile Thr Val Ser Val Lys Asp Leu Asn Gly			
195	200	205	
Ile Asp Leu Thr Pro Val Gln Asp Thr Pro Val Ala Ser Arg Lys Glu			
210	215	220	
Asp Thr Tyr Val His Phe Asn Val Asp Ile Glu Leu Gln Lys His Val			
225	230	235	240
Glu Lys Leu Thr Lys Gly Ala Ala Ile Phe Phe Glu Phe Lys His Tyr			
245	250	255	
Lys Pro Lys Lys Arg Phe Thr Ser Thr Lys Cys Phe Ala Phe Met Glu			
260	265	270	
Met Asp Glu Ile Lys Leu Gly Pro Ile Val Ile Glu Leu Tyr Lys Lys			
275	280	285	
Pro Thr Asp Phe Lys Arg Lys Gln Leu Gln Leu Leu Thr Lys Lys Pro			
290	295	300	
Leu Tyr Leu His Leu His Gln Thr Leu His Lys Glu			
305	310	315	316

<210> 1378  
 <211> 90  
 <212>Amino acid  
 <213> Homo sapiens

	<400> 1378		
Gly Ser Ile Thr Ser Glu Pro Ser Leu Asp Ser Leu Gln Pro Leu Pro			
1	5	10	15
Pro Gly Phe Lys Arg Phe Ser Cys Leu Ser Leu Pro Ser Ser Trp Asp			
20	25	30	
Tyr Arg Arg Pro Pro Pro Gly Leu Ala Tyr Phe Cys Ile Phe Ser Arg			
35	40	45	
Asp Glu Val Ser Pro Cys Trp Pro Gly Cys Ser Pro Ser Pro Asp Leu.			
50	55	60	
Met Ile Arg Leu Pro Arg Pro Pro Ser Val Gly Ile Thr Gly Val Ser			
65	70	75	80
His Arg Ala Trp Pro Thr Ile Asp Asn Phe			
85	90		

<210> 1379

<211> 332  
<212>Amino acid  
<213> Homo sapiens

<400> 1379  
Lys Met Pro Val Pro Trp Phe Leu Leu Ser Leu Ala Leu Gly Arg Ser  
1 5 10 15  
Pro Val Val Leu Ser Leu Glu Arg Leu Val Gly Pro Gln Asp Ala Thr  
20 25 30  
His Cys Ser Pro Gly Leu Ser Cys Arg Leu Trp Asp Ser Asp Ile Leu  
35 40 45  
Cys Leu Pro Gly Asp Ile Val Pro Ala Pro Gly Pro Val Leu Ala Pro  
50 55 60  
Thr His Leu Gln Thr Glu Leu Val Leu Arg Cys Gln Lys Glu Thr Asp  
65 70 75 80  
Cys Asp. Leu Cys Leu Arg Val Ala Val His Leu Ala Val His Gly His  
85 90 95  
Trp Glu Glu Pro Glu Asp Glu Glu Lys Phe Gly Gly Ala Ala Asp Ser  
100 105 110  
Gly Val Glu Glu Pro Arg Asn Ala Ser Leu Gln Ala Gln Val Val Leu  
115 120 125  
Ser Phe Gln Ala Tyr Pro Thr Ala Arg Cys Val Leu Leu Glu Val Gln  
130 135 140  
Val Pro Ala Ala Leu Val Gln Phe Gly Gln Ser Val Gly Ser Val Val  
145 150 155 160  
Tyr Asp Cys Phe Glu Ala Ala Leu Gly Ser Glu Val Arg Ile Trp Ser  
165 170 175  
Tyr Thr Gln Pro Arg Tyr Glu Lys Glu Leu Asn His Thr Gln Gln Leu  
180 185 190  
Pro Asp Cys Arg Gly Leu Glu Val Trp Asn Ser Ile Pro Ser Cys Trp  
195 200 205  
Ala Leu Pro Trp Leu Asn Val Ser Ala Asp Gly Asp Asn Val His Leu  
210 215 220  
Val Leu Asn Val Ser Glu Glu Gln His Phe Gly Leu Ser Leu Tyr Trp  
225 230 235 240  
Asn Gln Val Gln Gly Pro Pro Lys Pro Arg Trp His Lys Asn Leu Val  
245 250 255  
Arg Pro Pro Pro Ser Gln Val His Ser His Cys Arg Pro Cys Leu Cys  
260 265 270  
Lys Asp Ala Val Pro Tyr Gln Arg Gly Ser Leu Lys Arg Thr His Pro  
275 280 285  
Lys Gln Gly Lys Ile Gly Gly Gly Thr Ser Ala Phe Leu Val Ser Leu  
290 295 300  
Thr Leu Ala Ser Ser Ser Ser Leu Ser Ser Pro Thr Ser Phe Leu  
305 310 315 320  
Tyr Leu Phe His Arg Leu Asp Arg Arg Ser Leu Pro  
325 330 332

<210> 1380  
<211> 117  
<212>Amino acid  
<213> Homo sapiens

<400> 1380  
Leu Arg Leu Trp Asn Arg Asn Gln Met Met His Asn Ile Ile Val Lys

1	5	10	15
Glu Leu Ile Val Thr Phe Phe Leu Gly Ile Thr Val Val Gln Met Leu			
20	25	30	
Ile Ser Val Thr Gly Leu Lys Gly Val Ala Gln Asn Gly Ser Glu			
35	40	45	
Ser Glu Val Phe Val Gly Lys Tyr Glu Thr Leu Val Phe Tyr Trp Pro			
50	55	60	
Ser Leu Leu Cys Leu Ala Phe Leu Leu Gly Arg Phe Leu His Met Phe			
65	70	75	80
Val Lys Ala Leu Arg Val His Leu Gly Trp Glu Leu Gln Val Glu Glu			
85	90	95	
Lys Ser Val Leu Glu Val His Gln Gly Glu His Val Lys Gln Leu Leu			
100	105	110	
Arg Ile Pro Arg Pro			
115	117		

<210> 1381  
<211> 216  
<212>Amino acid  
<213> Homo sapiens

<400> 1381			
Lys Val Asn Arg Lys Leu Arg Lys Lys Gly Lys Ile Ser His Asp Lys			
1	5	10	15
Arg Lys Ser Arg Ser Lys Ala Ile Gly Ser Asp Thr Ser Asp Ile			
20	25	30	
Val His Ile Trp Cys Pro Glu Gly Met Lys Thr Ser Asp Ile Lys Glu			
35	40	45	
Leu Asn Ile Val Leu Pro Glu Phe Glu Lys Thr His Leu Glu His Gln			
50	55	60	
Gln Arg Ile Glu Ser Lys Val Cys Lys Ala Ala Ile Ala Thr Phe Tyr			
65	70	75	80
Val Asn Val Lys Glu Gln Phe Ile Lys Met Leu Lys Glu Ser Gln Met			
85	90	95	
Leu Thr Asn Leu Lys Arg Lys Asn Ala Lys Met Ile Ser Asp Ile Glu			
100	105	110	
Lys Lys Arg Gln Arg Met Ile Glu Val Gln Asp Glu Leu Arg Leu			
115	120	125	
Glu Pro Gln Leu Lys Gln Leu Gln Thr Lys Tyr Asp Glu Leu Lys Glu			
130	135	140	
Arg Lys Ser Ser Leu Arg Asn Ala Ala Tyr Phe Leu Ser Asn Leu Lys			
145	150	155	160
Gln Leu Tyr Gln Asp Tyr Ser Asp Val Gln Ala Gln Glu Pro Asn Val			
165	170	175	
Lys Glu Thr Tyr Asp Ser Ser Leu Pro Ala Leu Leu Phe Lys Ala			
180	185	190	
Arg Thr Leu Leu Gly Ala Glu Ser His Leu Arg Asn Ile Asn His Gln			
195	200	205	
Leu Glu Lys Leu Leu Asp Gln Gly			
210	215	216	

<210> 1382  
<211> 137  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature

<222> (1) . . . (137)  
 <223> X = any amino acid or stop code

<400> 1382  
 Val Trp Val Ala Met Glu Glu Pro Pro Val Arg Glu Glu Xaa Glu  
   1               5               10               15  
 Glu Gly Glu Glu Asp Glu Glu Arg Asp Glu Val Gly Pro Glu Gly Ala  
   20              25              30  
 Leu Gly Lys Ser Pro Phe Gln Leu Thr Ala Glu Asp Val Tyr Asp Ile  
   35              40              45  
 Ser Tyr Leu Leu Gly Arg Glu Leu Met Ala Leu Gly Ser Asp Pro Arg  
   50              55              60  
 Val Thr Gln Leu Gln Phe Lys Val Val Arg Val Leu Glu Met Leu Glu  
   65              70              75              80  
 Ala Leu Val Asn Glu Gly Ser Leu Ala Leu Glu Glu Leu Lys Met Glu  
   85              90              95  
 Arg Asp His Leu Arg Lys Glu Val Glu Gly Leu Arg Arg Gln Ser Pro  
   100             105             110  
 Pro Ala Ser Gly Glu Trp Pro Asp Ser Thr Lys Arg Arg Pro Arg Arg  
   115             120             125  
 Lys Lys Arg Lys Arg Cys Cys Gly Tyr  
   130             135             137

<210> 1383  
 <211> 90  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1383  
 Pro Arg Asn Asp His Arg Leu Thr Gln Ser Arg Arg Asp Ser Ser Ser  
   1               5               10               15  
 Lys Thr Arg Ala Phe Leu Val Pro Arg Phe Leu Pro Ala His Ala Gly  
   20              25              30  
 Val Thr Ser Glu Glu Arg Thr Ala Met Lys Arg Glu Gly Gly Ala Ala  
   35              40              45  
 His Leu Cys Ser Asp Ser Leu Pro Glu Ser Gln Gln Asp Gly Asn  
   50              55              60  
 His Ala Pro Asn Phe Ser Ser His Gly Ser Cys Arg Arg Arg Gln Arg  
   65              70              75              80  
 Arg Arg His Asp Lys Ala Leu His Ala Arg  
   85              90

<210> 1384  
 <211> 166  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1384  
 Thr His Ala Ser Glu Lys Ser Arg Ala Thr Met Ser Ser Trp Ser Arg  
   1               5               10               15

Gln Arg Pro Lys Ser Pro Gly Gly Ile Gln Pro His Val Ser Arg Thr  
 20 25 30  
 Leu Phe Leu Leu Leu Leu Ala Ala Ser Ala Trp Gly Val Thr Leu  
 35 40 45  
 Ser Pro Lys Asp Cys Gln Val Phe Arg Ser Asp His Gly Ser Ser Ile  
 50 55 60  
 Ser Cys Gln Pro Pro Ala Glu Ile Pro Gly Tyr Leu Pro Ala Asp Thr  
 65 70 75 80  
 Val His Leu Ala Val Glu Phe Phe Asn Leu Thr His Leu Pro Ala Asn  
 85 90 95  
 Leu Leu Gln Gly Ala Ser Lys Leu Gln Glu Leu His Leu Ser Ser Asn  
 100 105 110  
 Gly Leu Glu Ser Leu Ser Pro Glu Phe Leu Arg Pro Val Pro Gln Leu  
 115 120 125  
 Arg Val Leu Asp Leu Thr Arg Asn Ala Leu Thr Gly Leu Pro Pro Gly  
 130 135 140  
 Leu Phe Gln Ala Ser Ala Thr Leu Asp Thr Leu Val Leu Lys Glu Asn  
 145 150 155 160  
 Gln Leu Glu Val Leu Glu  
 165 166

<210> 1385  
<211> 164  
<212>Amino acid  
<213> Homo sapiens

<400> 1385  
 Glu Arg Pro Arg Ile Met Asp Leu Ala Gly Leu Leu Lys Ser Gln Phe  
 1 5 10 15  
 Leu Cys His Leu Val Phe Cys Tyr Val Phe Ile Ala Ser Gly Leu Ile  
 20 25 30  
 Ile Asn Thr Ile Gln Leu Phe Thr Leu Leu Leu Trp Pro Ile Asn Lys  
 35 40 45  
 Gln Leu Phe Arg Lys Ile Asn Cys Arg Leu Ser Tyr Cys Ile Ser Ser  
 50 55 60  
 Gln Leu Val Met Leu Leu Glu Trp Trp Ser Gly Thr Glu Cys Thr Ile  
 65 70 75 80  
 Phe Thr Asp Pro Arg Ala Tyr Leu Lys Tyr Gly Lys Glu Asn Ala Ile  
 85 90 95  
 Val Val Leu Asn His Lys Phe Glu Ile Asp Phe Leu Cys Gly Trp Ser  
 100 105 110  
 Leu Ser Glu Arg Phe Gly Leu Leu Gly Val Ser Gln Lys Cys Ile Pro  
 115 120 125  
 Pro Cys Leu Thr His Phe Phe Gly Ser Ala Pro Pro Leu Val Phe Leu  
 130 135 140  
 Leu Leu Val Ile Gln Asn Leu Glu Lys Asn Gln Gln Ser Phe Tyr Leu  
 145 150 155 160  
 Met Lys Trp Ser  
 164

<210> 1386  
<211> 289  
<212>Amino acid  
<213> Homo sapiens

<400> 1386  
 Met Ile Val Phe Gly Trp Ala Val Phe Leu Ala Ser Arg Ser Leu Gly  
 1 5 10 15  
 Gln Gly Leu Leu Thr Leu Glu Glu His Ile Ala His Phe Leu Gly  
 20 25 30  
 Thr Gly Gly Ala Ala Ala Thr Thr Met Gly Asn Ser Cys Ile Cys Cys Arg Asp  
 35 40 45  
 Asp Ser Gly Thr Asp Asp Ser Val Asp Thr Gln Gln Gln Ala Glu  
 50 55 60  
 Asn Ser Ala Val Pro Thr Ala Asp Thr Arg Ser Gln Pro Arg Asp Pro  
 65 70 75 80  
 Val Arg Pro Pro Arg Arg Gly Arg Gly Pro His Glu Pro Arg Arg Lys  
 85 90 95  
 Lys Gln Asn Val Asp Gly Leu Val Leu Asp Thr Leu Ala Val Ile Arg  
 100 105 110  
 Thr Leu Val Asp Asn Asp Gln Glu Pro Pro Tyr Ser Met Ile Thr Leu  
 115 120 125  
 His Glu Met Ala Glu Thr Asp Glu Gly Trp Leu Asp Val Val Gln Ser  
 130 135 140  
 Leu Ile Arg Val Ile Pro Leu Glu Asp Pro Leu Gly Pro Ala Val Ile  
 145 150 155 160  
 Thr Leu Leu Leu Asp Glu Cys Pro Leu Pro Thr Lys Asp Ala Leu Gln  
 165 170 175  
 Lys Leu Thr Glu Ile Leu Asn Leu Asn Gly Glu Val Ala Cys Gln Asp  
 180 185 190  
 Ser Ser His Pro Ala Lys His Arg Asn Thr Ser Ala Val Leu Gly Cys  
 195 200 205  
 Leu Ala Glu Lys Leu Ala Gly Pro Ala Ser Ile Gly Leu Leu Ser Pro  
 210 215 220  
 Gly Ile Leu Glu Tyr Leu Leu Gln Cys Leu Leu Gln Ser His Pro Thr  
 225 230 235 240  
 Val Met Leu Phe Ala Leu Ile Ala Leu Glu Lys Phe Ala Gln Thr Ser  
 245 250 255  
 Glu Asn Lys Leu Thr Ile Ser Glu Ser Ile Ser Asp Arg Leu Val  
 260 265 270  
 Thr Leu Glu Ser Trp Ala Asn Asp Pro Asp Tyr Leu Lys Arg Gln Val  
 275 280 285  
 Gly  
 289

<210> 1387  
<211> 320  
<212>Amino acid  
<213> Homo sapiens

Ser	Gly	Gly	Arg	Asp	His	Thr	Gly	Arg	Ile	Arg	Val	His	Gly	Ile	Gly
100							105						110		
Gly	Gly	His	Lys	Gln	Arg	Tyr	Arg	Met	Ile	Asp	Phe	Leu	Arg	Phe	Arg
115							120						125		
Pro	Glu	Glu	Thr	Lys	Ser	Gly	Pro	Phe	Glu	Glu	Lys	Val	Ile	Gln	Val
130							135						140		
Arg	Tyr	Asp	Pro	Cys	Arg	Ser	Ala	Asp	Ile	Ala	Leu	Val	Ala	Gly	Gly
145							150						155		160
Ser	Arg	Lys	Arg	Trp	Ile	Ile	Ala	Thr	Glu	Asn	Met	Gln	Ala	Gly	Asp
165							170						175		
Thr	Ile	Leu	Asn	Ser	Asn	His	Ile	Gly	Arg	Met	Ala	Val	Ala	Ala	Arg
180							185						190		
Glu	Gly	Asp	Ala	His	Pro	Leu	Gly	Ala	Leu	Pro	Val	Gly	Thr	Leu	Ile
195							200						205		
Asn	Asn	Val	Glu	Ser	Glu	Pro	Gly	Arg	Gly	Ala	Gln	Tyr	Ile	Arg	Ala
210							215						220		
Ala	Gly	Thr	Cys	Gly	Val	Leu	Leu	Arg	Lys	Val	Asn	Gly	Thr	Ala	Ile
225							230						235		240
Ile	Gln	Leu	Pro	Ser	Lys	Arg	Gln	Met	Gln	Val	Leu	Glu	Thr	Cys	Val
245							250						255		
Ala	Thr	Val	Gly	Arg	Val	Ser	Asn	Val	Asp	His	Asn	Lys	Arg	Val	Ile
260							265						270		
Gly	Lys	Ala	Gly	Arg	Asn	Arg	Trp	Leu	Gly	Lys	Arg	Pro	Asn	Ser	Gly
275							280						285		
Arg	Trp	His	Arg	Lys	Gly	Gly	Trp	Ala	Gly	Arg	Lys	Ile	Arg	Pro	Leu
290							295						300		
Pro	Pro	Met	Lys	Ser	Tyr	Val	Lys	Leu	Pro	Ser	Ala	Ser	Ala	Gln	Ser
305							310						315		320

<210> 1388  
 <211> 140  
 <212>Amino acid  
 <213> Homo sapiens

Pro	Val	Gln	Gly	Ala	Arg	Cys	Trp	Leu	Asp	Ala	Arg	Arg	Asn	Val	Arg
1						5				10			15		
Val	Phe	Ser	Gly	Val	Cys	Cys	Gly	Cys	Ile	His	Gly	Tyr	Trp	Ala	
20						25							30		
Glu	Pro	Cys	Gly	Gly	Cys	Gly	Ala	Met	Glu	Gly	Leu	Arg	Ser	Ser	Val
35						40							45		
Glu	Leu	Asp	Pro	Glu	Leu	Thr	Pro	Gly	Lys	Leu	Asp	Glu	Glu	Met	Val
50						55							60		
Gly	Leu	Pro	Pro	His	Asp	Ala	Ser	Pro	Gln	Val	Thr	Phe	His	Ser	Leu
65						70							75		80
Asp	Gly	Lys	Thr	Val	Val	Cys	Pro	His	Phe	Met	Gly	Ile	Leu	Leu	Gly
85						90							95		
Leu	Leu	Leu	Leu	Leu	Thr	Leu	Ser	Val	Arg	Asn	Gln	Leu	Cys	Val	Arg
100						105							110		
Gly	Glu	Arg	Gln	Leu	Ala	Glu	Thr	Leu	His	Ser	Gln	Val	Lys	Glu	Lys
115						120							125		
Ser	Gln	Leu	Ile	Gly	Lys	Lys	Thr	Asp	Cys	Arg	Asp				
130						135							140		

<210> 1389  
 <211> 448

<212>Amino acid  
 <213> Homo sapiens

<400> 1389  
 Gly Ala Arg Gly Arg Pro Leu Ala Glu Thr Trp Pro Phe Leu Thr Ala  
 1 5 10 15  
 Pro Val Leu Pro Gly Gln Leu Gln Ile Thr Glu Pro Thr Met Ala Glu  
 20 25 30  
 Lys Gly Asp Cys Ile Ala Ser Val Tyr Gly Tyr Asp Leu Gly Arg  
 35 40 45  
 Phe Val Asp Phe Gln Pro Leu Gly Phe Gly Val Asn Gly Leu Val Leu  
 50 55 60  
 Ser Ala Val Asp Ser Arg Ala Cys Arg Lys Val Ala Val Lys Lys Ile  
 65 70 75 80  
 Ala Leu Ser Asp Ala Arg Ser Met Lys His Ala Leu Arg Glu Ile Lys  
 85 90 95  
 Ile Ile Arg Arg Leu Asp His Asp Asn Ile Val Lys Val Tyr Glu Val  
 100 105 110  
 Leu Gly Pro Lys Gly Thr Asp Leu Gln Gly Glu Leu Phe Lys Phe Ser  
 115 120 125  
 Val Ala Tyr Ile Val Gln Glu Tyr Met Glu Thr Asp Leu Ala Arg Leu  
 130 135 140  
 Leu Glu Gln Gly Thr Leu Ala Glu Glu His Ala Lys Leu Phe Met Tyr  
 145 150 155 160  
 Gln Leu Leu Arg Gly Leu Lys Tyr Ile His Ser Ala Asn Val Leu His  
 165 170 175  
 Arg Asp Leu Lys Pro Ala Asn Ile Phe Ile Ser Thr Glu Asp Leu Val  
 180 185 190  
 Leu Lys Ile Gly Asp Phe Gly Leu Ala Arg Ile Val Asp Gln His Tyr  
 195 200 205  
 Ser His Lys Gly Tyr Leu Ser Glu Gly Leu Val Thr Lys Trp Tyr Arg  
 210 215 220  
 Ser Pro Arg Leu Leu Leu Ser Pro Asn Asn Tyr Thr Lys Ala Ile Asp  
 225 230 235 240  
 Met Trp Ala Ala Gly Cys Ile Leu Ala Glu Met Leu Thr Gly Arg Met  
 245 250 255  
 Leu Phe Ala Gly Ala His Glu Leu Glu Gln Met Gln Leu Ile Leu Glu  
 260 265 270  
 Thr Ile Pro Val Ile Arg Glu Glu Asp Lys Asp Glu Leu Leu Arg Val  
 275 280 285  
 Met Pro Ser Phe Val Ser Ser Thr Trp Glu Val Lys Arg Pro Leu Arg  
 290 295 300  
 Lys Leu Leu Pro Glu Val Asn Ser Glu Ala Ile Asp Phe Leu Glu Lys  
 305 310 315 320  
 Ile Leu Thr Phe Asn Pro Met Asp Arg Leu Thr Ala Glu Met Gly Leu  
 325 330 335  
 Gln His Pro Tyr Met Ser Pro Tyr Ser Cys Pro Glu Asp Glu Pro Thr  
 340 345 350  
 Ser Gln His Pro Phe Arg Ile Glu Asp Glu Ile Asp Asp Ile Val Leu  
 355 360 365  
 Met Ala Ala Asn Gln Ser Gln Leu Ser Asn Trp Asp Thr Cys Ser Ser  
 370 375 380  
 Arg Tyr Pro Val Ser Leu Ser Ser Asp Leu Glu Trp Arg Pro Asp Arg  
 385 390 395 400  
 Cys Gln Asp Ala Ser Glu Val Gln Arg Asp Pro Arg Ala Gly Ser Ala  
 405 410 415  
 Pro Leu Ala Glu Asn Val Gln Val Asp Pro Arg Lys Asp Ser His Ser  
 420 425 430  
 Ser Ser Ala Ser Cys Gln Ala Gly Arg Asn Gly Val Ser Arg Tyr Gln  
 435 440 445 448

<210> 1390  
 <211> 815  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1390  
 Met Arg Thr Leu Gly Thr Cys Leu Ala Thr Leu Ala Gly Leu Leu Leu  
 1               5               10               15  
 Thr Ala Ala Gly Glu Thr Phe Ser Gly Gly Cys Leu Phe Asp Glu Pro  
 20               25               30  
 Tyr Ser Thr Cys Gly Tyr Ser Gln Ser Glu Gly Asp Asp Phe Asn Trp  
 35               40               45  
 Glu Gln Val Asn Thr Leu Thr Lys Pro Thr Ser Asp Pro Trp Met Pro  
 50               55               60  
 Ser Gly Ser Phe Met Leu Val Asn Ala Ser Gly Arg Pro Glu Gly Gln  
 65               70               75               80  
 Arg Ala His Leu Leu Leu Pro Gln Leu Lys Glu Asn Asp Thr His Cys  
 85               90               95  
 Ile Asp Phe His Tyr Phe Val Ser Ser Lys Ser Asn Ser Pro Pro Gly  
 100              105              110  
 Leu Leu Asn Val Tyr Val Lys Val Asn Asn Gly Pro Leu Gly Asn Pro  
 115              120              125  
 Ile Trp Asn Ile Ser Gly Asp Pro Thr Arg Thr Trp Asn Arg Ala Glu  
 130              135              140  
 Leu Ala Ile Ser Thr Phe Trp Pro Asn Phe Tyr Gln Val Ile Phe Glu  
 145              150              155              160  
 Val Ile Thr Ser Gly His Gln Gly Tyr Leu Ala Ile Asp Glu Val Lys  
 165              170              175  
 Val Leu Gly His Pro Cys Thr Arg Thr Pro His Phe Leu Arg Ile Gln  
 180              185              190  
 Asn Val Glu Val Asn Ala Gly Gln Phe Ala Thr Phe Gln Cys Ser Ala  
 195              200              205  
 Ile Gly Arg Thr Val Ala Gly Asp Arg Leu Trp Leu Gln Gly Ile Asp  
 210              215              220  
 Val Arg Asp Ala Pro Leu Lys Glu Ile Lys Val Thr Ser Ser Arg Arg  
 225              230              235              240  
 Phe Ile Ala Ser Phe Asn Val Val Asn Thr Thr Lys Arg Asp Ala Gly  
 245              250              255  
 Lys Tyr Arg Cys Met Ile Arg Thr Glu Gly Gly Val Gly Ile Ser Asn  
 260              265              270  
 Tyr Ala Glu Leu Val Val Lys Glu Pro Pro Val Pro Ile Ala Pro Pro  
 275              280              285  
 Gln Leu Ala Ser Val Gly Ala Thr Tyr Leu Trp Ile Gln Leu Asn Ala  
 290              295              300  
 Asn Ser Ile Asn Gly Asp Gly Pro Ile Val Ala Arg Glu Val Glu Tyr  
 305              310              315              320  
 Cys Thr Ala Ser Gly Ser Trp Asn Asp Arg Gln Pro Val Asp Ser Thr  
 325              330              335  
 Ser Tyr Lys Ile Gly His Leu Asp Pro Asp Thr Glu Tyr Glu Ile Ser  
 340              345              350  
 Val Leu Leu Thr Arg Pro Gly Glu Gly Gly Thr Gly Ser Pro Gly Pro  
 355              360              365  
 Ala Leu Arg Thr Arg Thr Lys Cys Ala Asp Pro Met Arg Gly Pro Arg  
 370              375              380  
 Lys Leu Glu Val Val Glu Val Lys Ser Arg Gln Ile Thr Ile Arg Trp  
 385              390              395              400

Glu Pro Phe Gly Tyr Asn Val Thr Arg Cys His Ser Tyr Asn Leu Thr  
                   405                  410                  415  
 Val His Tyr Cys Tyr Gln Val Gly Gly Gln Val Arg Glu Glu  
                   420                  425                  430  
 Val Ser Trp Asp Thr Glu Asn Ser His Pro Gln His Thr Ile Thr Asn  
                   435                  440                  445  
 Leu Ser Pro Tyr Thr Asn Val Ser Val Lys Leu Ile Leu Met Asn Pro  
                   450                  455                  460  
 Glu Gly Arg Lys Glu Ser Gln Glu Leu Ile Val Gln Thr Asp Glu Asp  
                   465                  470                  475                  480  
 Leu Pro Gly Ala Val Pro Thr Glu Ser Ile Gln Gly Ser Thr Phe Glu  
                   485                  490                  495  
 Glu Lys Ile Phe Leu Gln Trp Arg Glu Pro Thr Gln Thr Tyr Gly Val  
                   500                  505                  510  
 Ile Thr Leu Tyr Glu Ile Thr Tyr Lys Ala Val Ser Ser Phe Asp Pro  
                   515                  520                  525  
 Glu Ile Asp Leu Ser Asn Gln Ser Gly Arg Val Ser Lys Leu Gly Asn  
                   530                  535                  540  
 Glu Thr His Phe Leu Phe Phe Gly Leu Tyr Pro Gly Thr Thr Tyr Ser  
                   545                  550                  555                  560  
 Phe Thr Ile Arg Ala Ser Thr Ala Lys Gly Phe Gly Pro Pro Ala Thr  
                   565                  570                  575  
 Asn Gln Phe Thr Thr Lys Ile Ser Ala Pro Ser Met Pro Ala Tyr Glu  
                   580                  585                  590  
 Leu Glu Thr Pro Leu Asn Gln Thr Asp Asn Thr Val Thr Val Met Leu  
                   595                  600                  605  
 Lys Pro Ala His Ser Arg Gly Ala Pro Val Ser Val Tyr Gln Ile Val  
                   610                  615                  620  
 Val Glu Glu Glu Arg Pro Arg Arg Thr Lys Lys Thr Thr Glu Ile Leu  
                   625                  630                  635                  640  
 Lys Cys Tyr Pro Val Pro Ile His Phe Gln Asn Ala Ser Leu Leu Asn  
                   645                  650                  655  
 Ser Gln Tyr Phe Ala Ala Glu Phe Pro Ala Asp Ser Leu Gln Ala  
                   660                  665                  670  
 Ala Gln Pro Phe Thr Ile Gly Asp Asn Lys Thr Tyr Asn Gly Tyr Trp  
                   675                  680                  685  
 Asn Thr Pro Leu Leu Pro Tyr Lys Ser Tyr Arg Ile Tyr Phe Gln Ala  
                   690                  695                  700  
 Ala Ser Arg Ala Asn Gln Glu Thr Lys Ile Asp Cys Val Gln Val Ala  
                   705                  710                  715                  720  
 Thr Lys Gly Ala Ala Thr Pro Lys Pro Val Pro Glu Pro Glu Lys Gln  
                   725                  730                  735  
 Thr Asp His Thr Val Lys Ile Ala Gly Val Ile Ala Gly Ile Leu Leu  
                   740                  745                  750  
 Phe Val Ile Ile Phe Leu Gly Val Val Leu Val Met Lys Lys Arg Leu  
                   755                  760                  765  
 Tyr Lys His Gly Ala Ser Ile Cys Ser Ala Ser Gly Glu Ala Ser Gly  
                   770                  775                  780  
 Ser Phe Gln Ser Trp Arg Lys Ala Lys His Lys Gln Ala Cys Pro Met  
                   785                  790                  795                  800  
 Ala Arg Ala Gly Ala Arg Glu Arg Ala Gly Gly Cys Leu Lys Leu  
                   805                  810                  815

<210> 1391  
 <211> 142  
 <212>Amino acid  
 <213> Homo sapiens

Gly Ile Arg Gln Leu Leu Gln Leu Ser Arg Ala Ser Met Ala Ala Arg  
 1               5                   10                   15  
 Lys Ser Trp Thr Ala Leu Arg Leu Cys Ala Thr Val Val Val Leu Asp  
 20              25                   30  
 Met Val Val Cys Lys Gly Phe Val Gln Asp Leu Asp Glu Ser Phe Lys  
 35              40                   45  
 Glu Asn Arg Asn Asp Asp Ile Trp Leu Val His Phe Tyr Ala Pro Trp  
 50              55                   60  
 Cys Gly His Cys Lys Lys Leu Glu Pro Ile Trp Asn Glu Ala Gly Leu  
 65              70                   75                   80  
 Glu Met Lys Ser Ile Gly Ser Pro Val Lys Ala Gly Lys Met Asp Ala  
 85              90                   95  
 Thr Ser Tyr Ser Ser Ile Ala Ser Glu Phe Gly Val Arg Gly Tyr Pro  
 100             105                   110  
 Thr Ile Lys Leu Ala Leu Ile Arg Pro Leu Pro Ser Gln Gln Met Phe  
 115             120                   125  
 Glu His Met His Lys Arg His Arg Val Phe Phe Val Tyr Val  
 130             135                   140                   142

<210> 1392  
<211> 282  
<212>Amino acid  
<213> Homo sapiens

<400> 1392  
 Gly Leu Val Ile Val Ile Ser His Phe Ser Pro Ser Pro Gly Leu Leu  
 1               5                   10                   15  
 Pro Ala Thr Gln Ser Pro Ala Met Ser Asp Pro Ile Thr Leu Asn Val  
 20              25                   30  
 Gly Gly Lys Leu Tyr Thr Thr Ser Leu Ala Thr Leu Thr Ser Phe Pro  
 35              40                   45  
 Asp Ser Met Leu Gly Ala Met Phe Ser Gly Lys Met Pro Thr Lys Arg  
 50              55                   60  
 Asp Ser Gln Gly Asn Cys Phe Ile Asp Arg Asp Gly Lys Val Phe Arg  
 65              70                   75                   80  
 Tyr Ile Leu Asn Phe Leu Arg Thr Ser His Leu Asp Leu Pro Glu Asp  
 85              90                   95  
 Phe Gln Glu Met Gly Leu Leu Arg Arg Glu Ala Asp Phe Tyr Gln Val  
 100             105                   110  
 Gln Pro Leu Ile Glu Ala Leu Gln Glu Lys Glu Val Glu Leu Ser Lys  
 115             120                   125  
 Ala Glu Lys Asn Ala Met Leu Asn Ile Thr Leu Asn Gln Arg Val Gln  
 130             135                   140  
 Thr Val His Phe Thr Val Arg Glu Ala Pro Gln Ile Tyr Ser Leu Ser  
 145             150                   155                   160  
 Ser Ser Ser Met Glu Val Phe Asn Ala Asn Ile Phe Ser Thr Ser Cys  
 165             170                   175  
 Leu Phe Leu Lys Leu Leu Gly Ser Lys Leu Phe Tyr Cys Ser Asn Gly  
 180             185                   190  
 Asn Leu Ser Ser Ile Thr Ser His Leu Gln Asp Pro Asn His Leu Thr  
 195             200                   205  
 Leu Asp Trp Val Ala Asn Val Glu Gly Leu Pro Glu Glu Glu Tyr Thr  
 210             215                   220  
 Lys Gln Asn Leu Lys Arg Leu Trp Val Val Pro Ala Asn Lys Gln Ile  
 225             230                   235                   240  
 Asn Ser Phe Gln Val Phe Val Glu Glu Val Leu Lys Ile Ala Leu Ser  
 245             250                   255  
 Asp Gly Phe Cys Ile Asp Ser Ser His Pro His Ala Leu Asp Phe Met  
 260             265                   270

<210> 1393  
<211> 308  
<212>Amino acid  
<213> Homo sapiens

<400> 1393  
Ser Cys Ala Asp Asn Leu Val Ala Ala Ser Gly Gly Cys Trp Phe Val  
1 5 10 15  
Leu Gly Glu Arg Arg Ala Gly Ser Leu Leu Ser Ala Ser Tyr Gly Thr  
20 25 30  
Phe Ala Met Pro Gly Met Val Leu Phe Gly Arg Arg Trp Ala Ile Ala  
35 40 45  
Ser Asp Asp Leu Val Phe Pro Gly Phe Glu Leu Val Val Arg Val  
50 55 60  
Leu Trp Trp Ile Gly Ile Leu Thr Leu Tyr Leu Met His Arg Gly Lys  
65 70 75 80  
Leu Asp Cys Ala Gly Gly Ala Leu Leu Ser Ser Tyr Leu Ile Val Leu  
85 90 95  
Met Ile Leu Leu Ala Val Val Ile Cys Thr Val Ser Ala Ile Met Cys  
100 105 110  
Val Ser Met Arg Gly Thr Ile Cys Asn Pro Gly Pro Arg Lys Ser Met  
115 120 125  
Ser Lys Ile Leu Tyr Ile Arg Leu Ala Leu Phe Phe Pro Glu Met Val  
130 135 140  
Trp Ala Ser Leu Gly Ala Ala Trp Val Ala Asp Gly Val Gln Cys Asp  
145 150 155 160  
Arg Thr Val Val Asn Gly Ile Ile Ala Thr Val Val Val Ser Trp Ile  
165 170 175  
Ile Ile Ala Ala Thr Val Val Ser Ile Ile Ile Val Phe Asp Pro Leu  
180 185 190  
Gly Gly Lys Met Ala Pro Tyr Ser Ser Ala Gly Pro Ser His Leu Asp  
195 200 205  
Ser His Asp Ser Ser Gln Leu Leu Asn Gly Leu Lys Thr Ala Ala Thr  
210 215 220  
Ser Val Trp Glu Thr Arg Ile Lys Leu Leu Cys Cys Cys Ile Gly Lys  
225 230 235 240  
Asp Asp His Thr Arg Val Ala Phe Ser Ser Thr Ala Glu Leu Phe Ser  
245 250 255  
Thr Tyr Phe Ser Asp Thr Asp Leu Val Pro Ser Asp Ile Ala Ala Gly  
260 265 270  
Leu Ala Leu Leu His Gln Gln Gln Asp Asn Ile Arg Asn Asn Gln Asp  
275 280 285  
Leu Pro Arg Trp Ser Ala Met Pro Gln Gly Ala Pro Arg Lys Leu Ile  
290 295 300  
Trp Met Gln Asn  
305 308

<210> 1394  
<211> 238  
<212>Amino acid  
<213> Homo sapiens

&lt;400&gt; 1394

Phe	Arg	Ala	Ala	Thr	Ala	Ala	Lys	Gly	Asn	Gly	Gly	Gly	Gly
1							5		10			15	
Arg	Ala	Gly	Ala	Gly	Asp	Ala	Ser	Gly	Thr	Arg	Lys	Lys	Pro
							20		25			30	
Gly	Pro	Leu	Ala	Thr	Ala	Tyr	Leu	Val	Ile	Tyr	Asn	Val	Met
											45		
35													
Ala	Gly	Trp	Leu	Val	Ile	Ala	Val	Gly	Leu	Val	Arg	Ala	Tyr
											50		Ala
											55		55
											60		60
Lys	Gly	Ser	Tyr	His	Ser	Ser	Leu	Tyr	Tyr	Ser	Ile	Glu	Lys
											65		60
Phe	Phe	Gln	Thr	Gly	Ala	Leu	Leu	Glu	Ile	Leu	His	Cys	Ala
											75		95
											85		90
Ile	Val	Pro	Ser	Ser	Val	Val	Leu	Thr	Ser	Phe	Gln	Val	Met
											100		105
											105		110
Val	Phe	Leu	Ile	Trp	Ala	Val	Thr	His	Ser	Val	Lys	Glu	Val
											115		125
											120		125
Glu	Asp	Ser	Val	Leu	Phe	Val	Ile	Ala	Trp	Thr	Ile	Thr	Glu
											130		140
											135		140
Arg	Tyr	Ser	Phe	Tyr	Thr	Phe	Ser	Leu	Leu	Asn	His	Leu	Pro
											145		155
											150		160
Ile	Lys	Arg	Ala	Arg	Tyr	Thr	Leu	Phe	Ile	Val	Leu	Tyr	Pro
											165		175
											170		175
Val	Ser	Gly	Glu	Leu	Leu	Thr	Ile	Tyr	Ala	Ala	Leu	Pro	Phe
											180		190
											185		190
Gln	Ala	Gly	Leu	Tyr	Ser	Ile	Ser	Leu	Pro	Asn	Ser	Thr	Lys
											195		205
Phe	Leu	Ile	Ser	Gln	Val	Trp	Trp	His	Met	Leu	Ala	val	Ser
											210		220
											215		220
Ala	Lys	Ala	Ala	Glu	Met	Pro	Ala	Val	Leu	Lys	Pro	Gly	Pro
											225		238
											230		235

&lt;210&gt; 1395

&lt;211&gt; 231

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1395

Met	Leu	Thr	Gly	Val	Gly	Cys	Leu	Val	Ser	Ser	Glu	Ser	Leu	Ser	Cys
1						5			10			15			
Val	Gln	Cys	Asn	Ser	Trp	Glu	Lys	Ser	Cys	Val	Asn	Ser	Ile	Ala	Ser
						20			25			30			
Glu	Cys	Pro	Ser	His	Ala	Asn	Thr	Ser	Cys	Ile	Ser	Ser	Ser	Ala	Ser
						35			40			45			
Ser	Ser	Leu	Glu	Thr	Pro	Val	Arg	Leu	Tyr	Gln	Asn	Met	Phe	Cys	Ser
						50			55			60			
Ala	Glu	Asn	Cys	Ser	Glu	Glu	Thr	His	Ile	Thr	Ala	Phe	Thr	Val	His
						65			70			75			80
Val	Ser	Ala	Glu	Glu	His	Phe	His	Phe	Val	Ser	Gln	Cys	Cys	Glu	Gly
						85			90			95			
Lys	Glu	Cys	Ser	Asn	Thr	Ser	Asp	Ala	Leu	Asp	Pro	Pro	Leu	Lys	Asn
						100			105			110			
Val	Ser	Ser	Asn	Ala	Glu	Cys	Pro	Ala	Cys	Tyr	Glu	Ser	Asn	Gly	Thr
						115			120			125			
Ser	Cys	Arg	Gly	Lys	Pro	Trp	Lys	Cys	Tyr	Glu	Glu	Glu	Gln	Cys	Val
						130			135			140			
Phe	Leu	Val	Ala	Glu	Leu	Lys	Asn	Asp	Ile	Glu	Ser	Lys	Ser	Leu	Val
						145			150			155			160

Leu Lys Gly Cys Ser Asn Val Ser Asn Ala Thr Cys Gln Phe Leu Ser  
 165 170 175  
 Gly Glu Asn Lys Thr Leu Gly Val Ile Phe Arg Lys Phe Glu Cys  
 180 185 190  
 Ala Asn Val Asn Ser Leu Thr Pro Thr Ser Ala Pro Thr Thr Ser His  
 195 200 205  
 Asn Val Gly Ser Lys Ala Ser Leu Tyr Leu Leu Ala Leu Ala Ser Leu  
 210 215 220  
 Leu Leu Arg Gly Leu Leu Pro  
 225 230 231

<210> 1396  
 <211> 216  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1396  
 Val Pro Ala Arg Arg Arg Ala Met Glu Ile Gly Thr Glu Ile Ser Arg  
 1 5 10 15  
 Lys Ile Arg Ser Ala Ile Lys Gly Lys Leu Gln Glu Leu Gly Ala Tyr  
 20 25 30  
 Val Asp Glu Glu Leu Pro Asp Tyr Ile Met Val Met Val Ala Asn Lys  
 35 40 45  
 Lys Ser Gln Asp Gln Met Thr Glu Asp Leu Ser Leu Phe Leu Gly Asn  
 50 55 60  
 Asn Thr Ile Arg Phe Thr Val Trp Leu His Gly Val Leu Asp Lys Leu  
 65 70 75 80  
 Arg Ser Val Thr Thr Glu Pro Ser Ser Leu Lys Ser Ser Asp Thr Asn  
 85 90 95  
 Ile Phe Asp Ser Asn Val Pro Ser Asn Lys Ser Asn Phe Ser Arg Gly  
 100 105 110  
 Asp Glu Arg Arg His Glu Ala Ala Val Pro Pro Leu Ala Ile Pro Ser  
 115 120 125  
 Ala Arg Pro Glu Lys Arg Asp Ser Arg Val Ser Thr Ser Ser Gln Glu  
 130 135 140  
 Ser Lys Thr Thr Asn Val Arg Gln Thr Tyr Asp Asp Gly Ala Ala Thr  
 145 150 155 160  
 Arg Leu Met Ser Thr Val Lys Pro Leu Arg Glu Pro Ala Pro Ser Glu  
 165 170 175  
 Asp Val Ile Asp Ile Lys Pro Glu Pro Asp Asp Leu Ile Asp Glu Asp  
 180 185 190  
 Leu Asn Phe Val Gln Glu Lys Pro Leu Ser Gln Lys Lys Pro Thr Val  
 195 200 205  
 Thr Leu Thr Tyr Gly Ser Ser Arg  
 210 215 216

<210> 1397  
 <211> 135  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1397  
 Ala Ser Arg Val Leu Ala Ala Val Met Gly Leu Pro Trp Gly Gln Pro  
 1 5 10 15

His Leu Gly Leu Gln Met Leu Leu Ala Leu Asn Trp Leu Arg Pro  
           20                 25                 30  
 Ser Leu Ser Leu Glu Leu Val Pro Tyr Thr Pro Gln Ile Thr Ala Trp  
           35                 40                 45  
 Asp Leu Glu Gly Lys Val Thr Ala Thr Thr Phe Ser Leu Glu Gln Pro  
           50                 55                 60  
 Arg Cys Val Phe Asp Gly Leu Ala Ser Ala Ser Asp Thr Val Trp Leu  
           65                 70                 75                 80  
 Val Val Ala Phe Ser Asn Ala Ser Arg Gly Phe Gln Asn Pro Glu Thr  
           85                 90                 95  
 Leu Ala Asp Ile Pro Ala Ser Pro Gln Leu Leu Thr Asp Gly His Tyr  
           100                105                110  
 Met Thr Leu Pro Leu Ser Pro Asp Gln Leu Pro Cys Gly Asp Pro Met  
           115                120                125  
 Ala Gly Ser Gly Ser Ala Pro  
           130                135

<210> 1398  
 <211> 41  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1398  
 Asn Ser Leu Asn Asn Phe Phe Glu Thr Glu Ser Cys Cys Val Ala  
   1                 5                 10                 15  
 Gln Ala Gly Val Gln Trp Arg Asp Leu Gly Ser Leu Gln Ala Pro Pro  
   20                 25                 30  
 Pro Gly Phe Lys Arg Phe Ser Cys Leu  
   35                 40                41

<210> 1399  
 <211> 151  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1399  
 Lys Ser Leu Pro Leu Gln Lys His Pro Lys Pro Ser Cys Gln Glu Asp  
   1                 5                 10                 15  
 Gln Gly Leu Gly Arg Gly Ser Leu Ser Gly His Ser Pro Leu Thr Leu  
   20                 25                 30  
 Leu Thr Phe Leu Thr Ser Cys Ala Leu Gly Asp Gln Gln Leu Leu Pro  
   35                 40                 45  
 Pro Arg Thr Ser Gly Ser Leu Cys Gln Glu Ser Met Ser Glu Gln Ser  
   50                 55                 60  
 Cys Gln Met Ser Glu Leu Arg Leu Leu Leu Gly Lys Cys Arg Ser  
   65                 70                 75                 80  
 Gly Lys Ser Ala Thr Gly Asn Ala Ile Leu Gly Lys His Val Phe Lys  
   85                 90                 95  
 Ser Lys Phe Ser Asp Gln Thr Val Ile Lys Met Cys Gln Arg Glu Ser  
   100                105                110  
 Trp Val Leu Arg Glu Arg Lys Val Val Val Ile Asp Thr Pro Asp Leu  
   115                120                125  
 Phe Ser Ser Ile Ala Cys Ala Glu Asp Lys Gln Arg Asn Ile Gln His  
   130                135                140

Leu Leu Glu Leu Ser Ala Pro  
145 150 151

<210> 1400  
<211> 324  
<212>Amino acid  
<213> Homo sapiens

<400> 1400  
Phe Val Glu Thr Thr Val Ser Val Gln Ser Ala Glu Ser Ser Asp Ala  
1 5 10 15  
Leu Ser Trp Ser Arg Leu Pro Arg Ala Leu Ala Ser Val Gly Pro Glu  
20 25 30  
Glu Ala Arg Ser Gly Ala Pro Val Gly Gly Gly Arg Trp Gln Leu Ser  
35 40 45  
Asp Arg Val Glu Gly Gly Ser Pro Thr Leu Gly Leu Leu Gly Gly Ser  
50 55 60  
Pro Ser Ala Gln Pro Gly Thr Gly Asn Val Glu Ala Gly Ile Pro Ser  
65 70 75 80  
Gly Arg Met Leu Glu Pro Leu Pro Cys Trp Asp Ala Ala Lys Asp Leu  
85 90 95  
Lys Glu Pro Gln Cys Pro Pro Gly Asp Arg Val Gly Val Gln Pro Gly  
100 105 110  
Asn Ser Arg Val Trp Gln Gly Thr Met Glu Lys Ala Gly Leu Ala Trp  
115 120 125  
Thr Arg Gly Thr Gly Val Gln Ser Glu Gly Thr Trp Glu Ser Gln Arg  
130 135 140  
Gln Asp Ser Asp Ala Leu Pro Ser Pro Glu Leu Leu Pro Gln Asp Gln  
145 150 155 160  
Asp Lys Pro Phe Leu Arg Lys Ala Cys Ser Pro Ser Asn Ile Pro Ala  
165 170 175  
Val Ile Ile Thr Asp Met Gly Thr Gln Glu Asp Gly Ala Leu Glu Glu  
180 185 190  
Thr Gln Gly Ser Pro Arg Gly Asn Leu Pro Leu Arg Lys Leu Ser Ser  
195 200 205  
Ser Ser Ala Ser Ser Thr Gly Phe Ser Ser Ser Tyr Glu Asp Ser Glu  
210 215 220  
Glu Asp Ile Ser Ser Asp Pro Glu Arg Thr Leu Asp Pro Asn Ser Ala  
225 230 235 240  
Phe Leu His Thr Leu Asp Gln Gln Lys Pro Arg Val Val Glu Ser Arg  
245 250 255  
Ser Val Thr Gln Ala Gly Val Gln Trp His Asp Ile Gly Ser Leu Gln  
260 265 270  
Pro Leu Pro Pro Trp Ile Gln Ala Ile Leu His Ala Ser Ala Phe Arg  
275 280 285  
Ile Ala Gly Thr Thr Gly Ala Cys His His Ala Arg Ile Ile Phe Gly  
290 295 300  
Phe Leu Val Glu Arg Gly Phe His His Val Gly Gln Asp Gly Leu Tyr  
305 310 315 320  
Leu Leu Ile Leu  
324

<210> 1401  
<211> 76  
<212>Amino acid  
<213> Homo sapiens  
  
<220>

<221> misc\_feature  
<222> (1)...(76)  
<223> X = any amino acid or stop code

<400> 1401  
Lys Ile Cys Ser Ser Tyr Phe Leu Arg Ile Ile Cys Ile Leu Gln Lys  
1 5 10 15  
Glu Ala Gln Glu Ala Ser Asn Leu Tyr Thr Ser Cys Asp Phe Phe Ser  
20 25 30  
Pro Ala Phe Tyr Phe Val Ile Tyr Arg Leu Tyr Asn Phe Lys Ile His  
35 40 45  
Trp Pro Gly Ala Val Ala His Thr Tyr Ser Pro Ser Thr Leu Gly Gly  
50 55 60  
Arg Gly Arg Trp Val Thr Xaa Gly Arg Glu Phe Met  
65 70 75 76

<210> 1402  
<211> 102  
<212>Amino acid  
<213> Homo sapiens

<400> 1402  
Leu Ile Leu Ser Leu Pro Leu Leu Tyr Gly His Leu Lys Ser Tyr Thr  
1 5 10 15  
Phe Pro Ser Glu His Tyr Leu His Leu Leu Gln Thr Phe Ala Thr Phe  
20 25 30  
Asn Lys Tyr Leu Asn Val Cys Val Ile His His Lys Pro  
35 40 45  
Val Val Pro Ala Ile Gln Gly Thr Asn Val Gly Gly Ser Leu Glu Pro  
50 55 60  
Arg Arg Leu Arg Leu Gln Gln Ala Met Ile Val Pro Leu His Phe Gly  
65 70 75 80  
Leu Gly Asn Arg Val Arg Pro Cys Leu Lys Gln Gln Gln Gln  
85 90 95  
Gln Gln Gln Lys Lys  
100 102

<210> 1403  
<211> 124  
<212>Amino acid  
<213> Homo sapiens  
<220>  
<221> misc\_feature  
<222> (1)...(124)  
<223> X = any amino acid or stop code

<400> 1403  
Arg Met Glu Thr Lys Pro Val Ile Thr Cys Leu Lys Thr Leu Leu Ile  
1 5 10 15

Ile	Tyr	Ser	Phe	Val	Phe	Trp	Ile	Thr	Gly	Val	Ile	Leu	Leu	Ala	Ala
							20				25				30
Gly	Val	Trp	Gly	Lys	Leu	Thr	Leu	Gly	Ser	Tyr	Ile	Ser	Leu	Ile	Ala
										35		40			45
Glu	Asn	Ser	Thr	Tyr	Ala	Pro	Tyr	Val	Ile	Val	Ile	Thr	Gly	Thr	Thr
										50		55			60
Ile	Val	Ala	Tyr	Pro	Leu	Val	Xaa	Phe	Phe	Phe	Ser	Tyr	Ser	Ser	Gly
										65		70			75
Phe	Ser	Tyr	Ile	Leu	Ala	Val	Arg	Leu	Ile	Ala	Gly	Ile	Ala	Leu	Val
										85		90			95
Tyr	Asn	Tyr	Ile	Pro	Arg	Ser	Ser	Ser	Arg	Ala	Leu	Val	Arg	Leu	Val
										100		105			110
Val	Leu	Ieu	Arg	Phe	Leu	Leu	Ser	Arg	His	Pro	Ser				
										115		120			124

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<210> 1404
<211> 136
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(136)
<223> X = any amino acid or stop code
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<400> 1404
Asn Ala Glu His Pro Gly Met Asp Arg His Asp Leu Cys Gln Lys Ala
      5          10           15
Lys Leu Ala Glu His Ala Glu Arg Asp Asp Asp Met Ala Ala Cys Met
      20          25           30
Lys Thr Val Thr Asp Gln Gly Ala Glu Leu Ser Asn Glu Glu Arg Asn
      35          40           45
Leu Leu Ser Asp Ala His Thr Asn Ala Val Xaa Ala Arg Arg Ser Ser
      50          55           60
Trp Met Gly Ala Xaa Arg Ile Glu Gln Lys Thr Glu Gly Ala Asp Thr
      65          70           75           80
Gln Gln Gln Met Ala Pro Asp Cys Arg Glu Ile Phe Ala Thr Glu Leu
      85          90           95
Arg Asp Ile Cys Asp Asp Val Leu Ser Leu Leu Glu Lys Leu Leu Ile
      100         105          110
Pro Asn Ala Ser His Ala Xaa Ser Leu Val Tyr Tyr Leu His Met Ile
      115         120          125
Gly Asp Tyr Tyr Arg Tyr Trp Leu
      130         135          136

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<210> 1405
<211> 110
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(110)
<223> X = any amino acid or stop code
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**MISSING AT THE TIME OF PUBLICATION**

Gly Asn Asp Tyr Ser Leu Gly Leu Thr Pro Thr Gly Val Leu Val Phe  
       85                   90                   95  
 Glu Gly Asp Thr Lys Ile Gly Leu Phe Phe Trp Pro Lys Ile Thr Arg  
       100               105                   110  
 Leu Asp Phe Lys Lys Asn Lys Leu Thr Leu Val Val Val Glu Asp Asp  
       115               120                   125  
 Asp Gln Gly Lys Glu Gln Glu His Thr Phe Val Phe Arg Leu Asp His  
       130               135                   140  
 Pro Lys Ala Cys Lys His Leu Trp Lys Cys Ala Val Glu His His A  
       145               150                   155                   160  
 Phe Phe Arg Leu Arg Gly Pro Val Gln Lys Ser Ser His Arg Ser Gly  
       165               170                   175  
 Phe Ile Arg Leu Gly Ser Arg Phe Arg Tyr Ser Gly Lys Thr Glu Tyr  
       180               185                   190  
 Gln Thr Thr Lys Thr Asn Lys Ala Arg Arg Ser Thr Ser Phe Glu Arg  
       195               200                   205  
 Arg Pro Ser Lys Arg Tyr Ser Arg Arg Arg Thr Leu Gln Met Lys Ala Cys  
       210               215                   220  
 Ala Thr Lys Pro Glu Glu Leu Ser Val His Asn Asn Val Ser Thr Gln  
       225               230                   235                   240  
 Ser Asn Gly Ser Gln Gln Ala Trp Gly Met Arg Ser Ala Leu Pro Val  
       245               250                   255  
 Ser Pro Ser Ile Ser Ser Ala Pro Val Pro Val Glu Ile Glu Asn Leu  
       260               265                   270  
 Pro Gln Ser Pro Gly Thr Asp Gln His Asp Arg Lys Trp Leu Ser Ala  
       275               280                   285  
 Ala Ser Asp Cys Cys Gln Arg Gly Gly Asn Gln Trp Asn Thr Arg Ala  
       290               295                   300  
 Leu  
 305

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<210> 1408
<211> 92
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(92)
<223> X = any amino acid or stop code

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<400> 1408
Ala Thr Ala Pro Gly Leu Phe Asn Phe Phe Xaa Phe Leu Phe Gln Cys  
 1               5                   10                   15  
 Arg Glu Glu His Lys Lys Lys Asn Pro Glu Val Pro Val Asn Phe Ala  
       20               25                   30  
 Glu Phe Ser Lys Lys Cys Ser Gly Arg Trp Lys Thr Met Ser Ser Lys  
       35               40                   45  
 Glu Lys Phe Lys Phe Gly Glu Met Ala Lys Ala Asp Glu Val Cys Tyr  
       50               55                   60  
 Asp Arg Glu Met Lys Asp Tyr Gly Pro Ala Lys Gly Gly Lys Lys Lys  
       65               70                   75                   80  
 Asp Pro Asn Ala Pro Lys Arg Pro Pro Ser Gly Phe  
       85               90                   92

```

<210> 1409
<211> 169
<212>Amino acid

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&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(169)

&lt;223&gt; X = any amino acid or stop code

&lt;400&gt; 1409

Ala	Glu	Gly	Leu	Gly	Ser	Trp	Ala	Val	Trp	Ala	Gly	Leu	Gly	Trp	Ala	
1															15	
Gly	Arg	His	Met	Met	Glu	Ala	Gly	Gly	Ala	Thr	Gly	Ala	Leu	Gly	Val	Gly
															20	
Ser	Lys	Leu	Pro	Ser	Ala	Phe	Cys	Phe	Pro	Gly	Ser	Ser	Val	Ala	Met	
															35	
Asp	Met	Phe	Gln	Lys	Val	Glu	Lys	Ile	Gly	Glu	Gly	Thr	Tyr	Gly	Val	
															50	
Val	Tyr	Lys	Ala	Lys	Asn	Arg	Glu	Thr	Gly	Gln	Leu	Val	Ala	Leu	Lys	
															65	
Lys	Ile	Arg	Leu	Asp	Leu	Xaa	Val	Leu	Gly	Arg	Pro	Leu	Ser	Tyr	Pro	
															85	
Pro	Trp	Ala	Ile	Ile	Thr	Trp	Ala	Leu	Pro	Asp	Pro	Phe	Pro	Leu	Ser	
															100	
Trp	Ser	Pro	Arg	Leu	Thr	Pro	Leu	Gly	Ala	Ala	Gln	Gln	Pro	Leu	Pro	
															115	
Val	Leu	Ser	Pro	Val	His	Cys	Leu	Leu	Thr	Ser	Leu	Cys	Arg	Gly	Pro	
															130	
Asp	Cys	Gly	Val	Trp	Trp	Met	Thr	Cys	Gln	Gly	Ala	Gln	Val	Ser	Ile	
															145	
Ala	Gly	Ala	Leu	Vla	Ile	Leu	Trp	Gly							155	
															165	
															169	

&lt;210&gt; 1410

&lt;211&gt; 146

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1410

Leu	Cys	Val	Ser	Val	Leu	Cys	Ser	Phe	Ser	Tyr	Leu	Gln	Asn	Gly	Trp	
1															15	
Thr	Ala	Ser	Asp	Pro	Val	His	Gly	Tyr	Trp	Phe	Arg	Ala	Gly	Asp	His	
															20	
Val	.Ser	Arg	Asn	Ile	Pro	Val	Ala	Thr	Asn	Asn	Pro	Val	Arg	Ala	Val	
															35	
Gln	Glu	Glu	Thr	Arg	Asp	Arg	Arg	Phe	His	Leu	Leu	Gly	Asp	Pro	Gln	Asn
															50	
Lys	Asp	Cys	Thr	Leu	Ser	Ile	Arg	Asp	Thr	Arg	Glu	Ser	Asp	Ala	Gly	
															65	
Thr	Tyr	Val	Phe	Cys	Val	Glu	Arg	Gly	Asn	Met	Lys	Trp	Asn	Tyr	Lys	
															85	
Tyr	Asp	Gln	Leu	Ser	Val	Asn	Val	Thr	Ala	Ser	Gln	Asp	Leu	Leu	Ser	
															100	
Arg	Tyr	Arg	Leu	Glu	Val	Pro	Glu	Ser	Val	Thr	Val	Gln	Glu	Gly	Leu	
															115	
Cys	Val	Ser	Val	Pro	Trp	Gln	Cys	Pro	Leu	Pro	Pro	Leu	Gln	Leu	Asp	
															130	
															135	
															140	

Cys Leu  
145 146

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<210> 1411
<211> 250
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(250)
<223> X = any amino acid or stop code
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Gln	Leu	Gln	Leu	Cys	Gln	Asn	Cys	Thr	Lys	Arg	Gly	Glu	Cys	His	Cys
1				5				10					15		
Val	Pro	Phe	Asp	Thr	Tyr	Ile	Lys	Thr	Lys	Lys	Glu	Lys	Lys	Arg	Leu
				20			25					30			
Ser	Val	Leu	Pro	Pro	Thr	Arg	Leu	Met	Glu	Ala	Arg	Phe	Ser	Pro	Ile
				35			40				45				
Asn	Gln	Ile	Leu	Pro	Trp	Cys	Arg	Gln	Asp	Leu	Ala	Ile	Ser	Ile	Ser
	50					55			60						
Lys	Ala	Ile	Asn	Thr	Gln	Glu	Ala	Pro	Val	Lys	Glu	Lys	His	Ala	Arg
	65				70				75			80			
Arg	Ile	Ile	Leu	Gly	Thr	His	His	Glu	Lys	Gly	Ala	Phe	Thr	Phe	Trp
				85				90				95			
Ser	Tyr	Ala	Ile	Gly	Leu	Pro	Leu	Pro	Ser	Ser	Ser	Ile	Leu	Ser	Trp
				100			105				110				
Lys	Phe	Cys	His	Val	Leu	His	Lys	Val	Leu	Arg	Asp	Gly	His	Pro	Asn
				115			120			125					
Val	Leu	His	Asp	Cys	Gln	Arg	Tyr	Arg	Ser	Asn	Ile	Arg	Glu	Ile	Gly
				130			135			140					
Asp	Leu	Trp	Gly	His	Leu	His	Asp	Arg	Tyr	Gly	Gln	Leu	Val	Asn	Val
				145			150			155			160		
Tyr	Thr	Lys	Leu	Leu	Leu	Thr	Lys	Ile	Ser	Phe	His	Leu	Lys	His	Pro
						165			170			175			
Gln	Phe	Pro	Ala	Gly	Leu	Glu	Val	Thr	Asp	Glu	Val	Leu	Glu	Lys	Ala
				180			185			190					
Ala	Gly	Thr	Asp	Val	Asn	Asn	Xaa	Val	Thr	Leu	His	Gly	Tyr	Met	
				195			200			205					
Ala	Ser	Ser	Pro	Arg	Leu	Pro	His	Ser	Phe	Leu	Pro	Arg	Leu	Thr	Pro
				210			215			220					
Arg	Arg	Pro	His	Gly	Ala	Val	Gly	Leu	Asn	Glu	Ser	Val	Ala	Leu	Leu
				225			230			235			240		
Val	Asp	Ala	His	Ala	Pro	Arg	Asp	Arg	Gly						
					245.				250						

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<210> 1412
<211> 169
<212>Amino acid
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1)...(169)
<223> X = any amino acid or stop code
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<400> 1412  
 Ala Ala Pro His Arg Met Pro Arg Ala Pro His Phe Met Pro Leu Leu  
 1 5 10 15  
 Leu Leu Leu Leu Leu Ser Leu Pro His Thr Gln Ala Ala Phe Pro  
 20 25 30  
 Gln Asp Pro Leu Pro Leu Leu Ile Ser Asp Leu Gln Gly Thr Ser Pro  
 35 40 45  
 Leu Ser Trp Leu Pro Ser Leu Glu Asp Asp Ala Val Ala Ala Xaa Leu  
 50 55 60  
 Gly Leu Asp Phe Gln Arg Phe Leu Thr Leu Asn Arg Thr Leu Leu Val  
 65 70 75 80  
 Ala Ala Arg Asp His Val Phe Ser Phe Asp Leu Gln Ala Glu Glu Glu  
 85 90 95  
 Gly Glu Gly Leu Val Pro Asn Lys Tyr Leu Thr Trp Arg Ser Gln Asp  
 100 105 110  
 Val Glu Asn Cys Ala Val Arg Xaa Lys Leu Thr Leu Asn Arg Thr Leu  
 115 120 125  
 Leu Val Ala Ala Arg Asp His Val Phe Ser Phe Asp Leu Gln Ala Glu  
 130 135 140  
 Glu Glu Gly Leu Val Pro Asn Lys Tyr Leu Thr Trp Arg Ser  
 145 150 155 160  
 Gln Asp Val Glu Asn Cys Ala Val Arg  
 165 169

<210> 1413  
<211> 131  
<212> Amino acid  
<213> Homo sapiens  
<220>  
<221> misc\_feature  
<222> (1)...(131)  
<223> X = any amino acid or stop code

<400> 1413  
 His Leu Val Pro Lys Thr Arg Gly Arg Gly Thr Pro Ser Gly Asp Gln  
 1 5 10 15  
 Ser Pro Val Leu Thr Leu Thr Pro Xaa Gly Asp Pro Pro Thr Ile Leu  
 20 25 30  
 Gly Pro Gln Thr Asn Gln Pro Lys Glu His Leu Thr Asn Phe Lys Ser  
 35 40 45  
 Gly Lys Arg Ser Phe His Ser Leu Leu Gln Pro Leu Leu Leu Leu  
 50 55 60  
 His Pro Ser Ile Ser Pro Phe Leu Asn Phe Gly Ser Phe Pro Phe Leu  
 65 70 75 80  
 Val Glu Thr Glu Glu Thr Cys Phe Ile His Lys Leu Lys Thr Pro Ala  
 85 90 95  
 Leu Val Thr Pro Asp Ser Leu Pro Leu Val Phe Asn His Cys Gly Asp  
 100 105 110  
 Ala Cys Leu Ile Ile His Pro His Phe Arg Asp Val Glu Phe His His  
 115 120 125  
 Thr Gly Asn  
 130 131

<210> 1414

<211> 365  
<212>Amino acid  
<213> Homo sapiens

<400> 1414  
Cys Cys Ser Thr Lys Asn Ile Ser Gly Asp Lys Ala Cys Asn Leu Met  
1 5 10 15  
Ile Phe Asp Thr Arg Lys Thr Ala Arg Gln Pro Asn Cys Tyr Leu Phe  
20 25 30  
Phe Cys Pro Asn Glu Ala Cys Pro Leu Lys Pro Ala Lys Gly Leu  
35 40 45  
Met Ser Tyr Arg Ile Ile Thr Asp Phe Pro Ser Leu Thr Arg Asn Leu  
50 55 60  
Pro Ser Gln Glu Leu Pro Gln Glu Asp Ser Leu Leu His Gly Gln Phe  
65 70 75 80  
Ser Gln Ala Val Thr Pro Leu Ala His His His Thr Asp Tyr Ser Lys  
85 90 95  
Pro Thr Asp Ile Ser Trp Arg Asp Thr Leu Ser Gln Lys Phe Gly Ser  
100 105 110  
Ser Asp His Leu Glu Lys Leu Phe Lys Met Asp Glu Ala Ser Ala Gln  
115 120 125  
Leu Leu Ala Tyr Lys Glu Lys Gly His Ser Gln Ser Ser Gln Phe Ser  
130 135 140  
Ser Asp Gln Glu Ile Ala His Leu Leu Pro Glu Asn Val Ser Ala Leu  
145 150 155 160  
Pro Ala Thr Val Ala Val Ala Ser Pro His Thr Thr Ser Ala Thr Pro  
165 170 175  
Lys Pro Ala Thr Leu Leu Pro Thr Asn Ala Ser Val Thr Pro Ser Gly  
180 185 190  
Thr Ser Gln Pro Gln Leu Ala Thr Thr Ala Pro Pro Val Thr Thr Val  
195 200 205  
Thr Ser Gln Pro Pro Thr Thr Leu Ile Ser Thr Val Phe Thr Arg Ala  
210 215 220  
Ala Ala Thr Leu Gln Ala Met Ala Thr Thr Ala Val Leu Thr Thr Thr  
225 230 235 240  
Phe Gln Ala Pro Thr Asp Ser Lys Gly Ser Leu Glu Thr Ile Pro Phe  
245 250 255  
Thr Glu Ile Ser Asn Leu Thr Leu Asn Thr Gly Asn Val Tyr Asn Pro  
260 265 270  
Thr Ala Leu Ser Met Ser Asn Val Glu Ser Ser Thr Met Asn Lys Thr  
275 280 285  
Ala Ser Trp Glu Gly Arg Glu Ala Ser Pro Gly Ser Ser Ser Gln Gly  
290 295 300  
Ser Val Pro Glu Asn Gln Tyr Gly Leu Pro Phe Glu Lys Trp Leu Leu  
305 310 315 320  
Ile Gly Ser Leu Leu Phe Gly Val Leu Phe Leu Val Ile Gly Leu Val  
325 330 335  
Leu Leu Gly Arg Ile Leu Ser Glu Ser Leu Arg Arg Lys Arg Tyr Ser  
340 345 350  
Arg Leu Asp Tyr Leu Ile Asn Gly Ile Tyr Val Asp Ile  
355 360 365

<210> 1415  
<211> 148  
<212>Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature

<222> (1)...(148)  
 <223> X = any amino acid or stop code

<400> 1415  
 Ile Phe Ala Gly Ser Gly Val Met Arg Leu Lys Ile Ser Leu Leu Lys  
 1 5 10 15  
 Glu Pro Lys His Gln Glu Leu Val Ser Cys Val Gly Trp Thr Thr Ala  
 20 25 30  
 Glu Glu Leu Tyr Ser Cys Ser Asp Asp His His Ile Val Lys Trp Asn  
 35 40 45  
 Leu Leu Thr Ser Glu Thr Thr Gln Ile Val Lys Leu Pro Asp Asp Ile  
 50 55 60  
 Tyr Pro Ile Asp Phe His Trp Phe Pro Lys Ser Leu Gly Val Lys Lys  
 65 70 75 80  
 Gln Thr His Ala Glu Ser Phe Val Ile Thr Ser Ser Asp Gly Lys Phe  
 85 90 95  
 His Leu Ile Ser Lys Leu Gly Arg Val Glu Lys Ser Val Glu Ala His  
 100 105 110  
 Cys Gly Ala Val Leu Ala Gly Arg Trp Asn Tyr Glu Gly Thr Ala Leu  
 115 120 125  
 Val Thr Val Gly Glu Asp Gly Gln Ile Xaa Ile Trp Ser Lys Thr Gly  
 130 135 140  
 Met Leu Ile Ser  
 145 148

<210> 1416  
 <211> 122  
 <212> Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(122)  
 <223> X = any amino acid or stop code

<400> 1416  
 Ala Arg Ala Thr Thr Lys Arg His Phe Ile Leu Leu Phe Leu Phe Phe  
 1 5 10 15  
 Leu Arg Arg Cys Leu Phe Leu Ser Pro Arg Met Glu Cys Asn Gly Ala  
 20 25 30  
 Ile Leu Ala His Cys Asn Leu His Leu Pro Gly Ser Ser Ser Ser  
 35 40 45  
 Ala Ser Ala Ser Xaa Val Ala Gly Ile Thr Asp Val Arg His His Ala  
 50 55 60  
 Gln Leu Ile Leu Phe Val Phe Leu Val Glu Thr Gly Phe His Arg Val  
 65 70 75 80  
 Gly Gln Ala Gly Leu Lys Leu Leu Thr Ser Gly Asp Leu Leu Thr Ser  
 85 90 95  
 Ala Ser Gln Ser Ala Gly Ile Ile Met Gly Ile Ser His Cys Ala Gln  
 100 105 110  
 Pro Lys Lys Ala Phe Xaa Thr Lys Thr Phe  
 115 120 122

<210> 1417

<211> 138  
 <212> Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(138)  
 <223> X = any amino acid or stop code

<400> 1417  
 Glu Ala Gly Ser Asn Asp Asp Leu Ala Thr Xaa Lys Thr Cys Gly Arg  
   1               5               10               15  
 Ala Arg Pro Ser Ser Arg Ser Arg Gln Phe Gly Ser Arg Val Trp Asn  
   20               25               30  
 His Arg Gln Gly Val Arg Ser Ser Pro Gly Glu Gly Ala Gly Ser Arg  
   35               40               45  
 Ser Pro Cys Arg Arg Arg His Arg Arg Lys His Arg Arg Asn Val Gln  
   50               55               60  
 Ser Pro Xaa Arg Arg Arg Ser Arg Ser Cys Ser Arg Arg Ser Gly Arg  
   65               70               75               80  
 Cys Ser Val Ala Leu Leu Gly Ala Cys Pro Val Ala Gly His Ser Arg  
   85               90               95  
 Gly Lys Val Val Cys Arg Arg Ala His Ala Ile Thr Gln Arg Arg Arg  
   100              105              110  
 Cys Cys Gly Phe Asp Pro Met Val His Pro Lys Glu His Arg Gly Xaa  
   115              120              125  
 Arg Glu Arg Ser Arg Lys Trp Ser Arg Ser  
   130              135              138

<210> 1418  
 <211> 92  
 <212> Amino acid  
 <213> Homo sapiens  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(92)  
 <223> X = any amino acid or stop code

<400> 1418  
 Ala Thr Ala Pro Gly Leu Phe Asn Phe Phe Xaa Phe Leu Phe Gln Cys  
   1               5               10               15  
 Arg Glu Glu His Lys Lys Lys Asn Pro Glu Val Pro Val Asn Phe Ala  
   20               25               30  
 Glu Phe Ser Lys Lys Cys Ser Gly Arg Trp Lys Thr Met Ser Ser Lys  
   35               40               45  
 Glu Lys Phe Lys Phe Gly Glu Met Ala Lys Ala Asp Glu Val Cys Tyr  
   50               55               60  
 Asp Arg Glu Met Lys Asp Tyr Gly Pro Ala Lys Gly Gly Lys Lys Lys  
   65               70               75               80  
 Asp Pro Asn Ala Pro Lys Arg Pro Pro Ser Gly Phe  
   85               90               92

<210> 1419

<211> 44  
<212>Amino acid  
<213> Homo sapiens

<400> 1419  
Leu Thr Val Asn Tyr Val Leu Val Phe Ser Arg Asp Ser Gly Leu Arg  
1 5 10 15  
Ala Ile Glu Asn Leu Met Gln Lys Lys Gly Lys Phe Asp Tyr Ile Leu  
20 25 30  
Leu Glu Thr Thr Gly Leu Ala Asp Pro Gly Lys Lys  
35 40 44

<210> 1420  
<211> 91  
<212>Amino acid  
<213> Homo sapiens

<400> 1420  
His Glu Ala Ala Leu Cys Arg Thr Arg Ala Val Ala Ala Glu Arg His  
1 5 10 15  
Phe Leu Arg Val Phe Leu Phe Phe Arg Pro Phe Arg Gly Val Gly Thr  
20 25 30  
Glu Ser Gly Ser Glu Ser Gly Ser Ser Lys Ala Lys Glu Pro Arg Thr  
35 40 45  
Pro Ser Ser Ser Tyr Gly Thr Ala Gln Tyr Arg Arg Trp Pro Ile Ala  
50 55 60  
Gln Glu Tyr Lys His Cys Thr Ala His Asn Asp Thr Gly Thr Leu Cys  
65 70 75 80  
Ser Glu Leu Arg Glu Pro Trp Arg Arg Pro Gln  
85 90 91

<210> 1421  
<211> 190  
<212>Amino acid  
<213> Homo sapiens  
<220>  
<221> misc\_feature  
<222> (1)...(190)  
<223> X = any amino acid or stop code

<400> 1421  
Glu Gly Ser Ser Gln Ala Asn Thr Leu Arg Ser Arg Lys Glu Asn Arg  
1 5 10 15  
Asn Asn Leu Leu Ala Cys Leu Glu Ser His Val Leu Arg Xaa Gln Phe  
20 25 30  
Thr Glu Ser His Leu Cys Ser Leu Met Gly Asp Asn Pro Phe Gln Pro  
35 40 45  
Lys Ser Asn Ser Lys Met Ala Glu Leu Phe Met Glu Cys Glu Glu Glu  
50 55 60

Glu Leu Glu Pro Trp Gln Lys Lys Val Lys Glu Val Glu Asp Asp Asp  
 65                   70                   75                   80  
 Asp Asp Glu Pro Ile Phe Val Gly Glu Ile Ser Ser Ser Lys Pro Ala  
 85                   80                   95  
 Ile Ser Asn Ile Leu Asn Arg Val Asn Pro Ser Ser Tyr Ser Arg Gly  
 100                 105                 110  
 Leu Lys Asn Gly Ala Leu Ser Arg Gly Ile Thr Ala Ala Phe Lys Pro  
 115                 120                 125  
 Thr Ser Gln His Tyr Thr Asn Pro Thr Ser Asn Pro Val Pro Ala Ser  
 130                 135                 140  
 Pro Ile Asn Phe His Pro Glu Ser Arg Ser Ser Asp Ser Ser Val Ile  
 145                 150                 155                 160  
 Gly Gln Pro Phe Ser Lys Pro Val Ser Val Ser Lys Thr Ile Arg Pro  
 165                 170                 175  
 Ala Gln Gly Ser Ile Gly Cys Cys Leu Ser Ile Ser Thr Val  
 180                 185                 190

<210> 1422  
<211> 207  
<212>Amino acid  
<213> Homo sapiens

<400> 1422  
Cys Phe Ser Leu Glu Asp Ile Leu Asn Phe Phe Leu Gln Gly Phe Ser  
 1                   5                   10                   15  
 Ala Gly Leu Phe Ala Phe Tyr His Asp Lys Asp Gly Asn Pro Leu Thr  
 20                 25                 30  
 Ser Arg Phe Ala Asp Gly Leu Pro Pro Phe Asn Tyr Ser Leu Gly Leu  
 35                 40                 45  
 Tyr Gln Trp Ser Asp Lys Val Val Arg Lys Val Glu Arg Leu Trp Asp  
 50                 55                 60  
 Val Arg Asp Asn Lys Ile Val Arg His Thr Val Tyr Leu Leu Val Thr  
 65                 70                 75                 80  
 Pro Arg Val Val Glu Glu Ala Arg Lys His Phe Asp Cys Pro Val Leu  
 85                 90                 95  
 Glu Gly Met Glu Leu Glu Asn Gln Gly Gly Val Gly Thr Glu Leu Asn  
 100                105                110  
 His Trp Glu Lys Arg Leu Leu Glu Asn Glu Ala Met Thr Gly Ser His  
 115                120                125  
 Thr Gln Asn Arg Val Leu Ser Arg Ile Thr Leu Ala Leu Met Glu Asp  
 130                135                140  
 Thr Gly Arg Gln Met Leu Ser Pro Tyr Cys Asp Thr Leu Arg Ser Asn  
 145                150                155                 160  
 Pro Leu Gln Leu Thr Cys Arg Gln Asp Gln Arg Ala Val Ala Val Cys  
 165                170                175  
 Asn Leu Gln Lys Phe Pro Lys Pro Leu Pro Gln Glu Tyr Gln Tyr Phe  
 180                185                190  
 Asp Glu Leu Ser Gln Ile Pro Ala Glu Asp Leu Pro Tyr Tyr Gly  
 195                200                205                207

<210> 1423  
<211> 423  
<212>Amino acid  
<213> Homo sapiens

<400> 1423  
 Ala Ala Arg Arg Arg Gln Leu Val Ser Arg Arg Arg Thr Ala Glu  
   1               5               10               15  
 Tyr Pro Arg Arg Arg Arg Ser Ser Pro Ser Ala Arg Pro Pro Asp Val  
   20               25               30  
 Pro Gly Gln Pro Lys Ala Ala Lys Ser Pro Ser Pro Val Gln Gly  
   35               40               45  
 Lys Lys Ser Pro Arg Leu Leu Cys Ile Glu Lys Val Thr Thr Asp Lys  
   50               55               60  
 Asp Pro Lys Glu Glu Lys Glu Glu Glu Asp Asp Ser Ala Leu Pro Gln  
   65               70               75               80  
 Glu Val Ser Ile Ala Ala Ser Arg Pro Ser Arg Gly Trp Arg Ser Ser  
   85               90               95  
 Arg Thr Ser Val Ser Arg His Arg Asp Thr Glu Asn Thr Arg Ser Ser  
   100              105              110  
 Arg Ser Lys Thr Gly Ser Leu Glu Ile Cys Lys Ser Glu Pro Asn  
   115              120              125  
 Thr Asp Gln Leu Asp Tyr Asp Val Gly Glu Glu His Gln Ser Pro Gly  
   130              135              140  
 Gly Ile Ser Ser Glu Glu Glu Glu Glu Glu Glu Met Leu Ile  
   145              150              155              160  
 Ser Glu Glu Glu Ile Pro Phe Lys Asp Asp Pro Arg Asp Glu Thr Tyr  
   165              170              175  
 Lys Pro His Leu Glu Arg Glu Thr Pro Lys Pro Arg Arg Lys Ser Gly  
   180              185              190  
 Lys Val Lys Glu Glu Lys Lys Glu Ile Lys Val Glu Val Glu  
   195              200              205  
 Val Glu Val Lys Glu Glu Glu Asn Glu Ile Arg Glu Asp Glu Glu Pro  
   210              215              220  
 Pro Arg Lys Arg Gly Arg Arg Lys Asp Asp Lys Ser Pro Arg Leu  
   225              230              235              240  
 Pro Lys Arg Arg Lys Lys Pro Pro Ile Gln Tyr Val Arg Cys Glu Met  
   245              250              255  
 Glu Gly Cys Gly Thr Val Leu Ala His Pro Arg Tyr Leu Gln His His  
   260              265              270  
 Ile Lys Tyr Gln His Leu Leu Lys Lys Tyr Val Cys Pro His Pro  
   275              280              285  
 Ser Cys Gly Arg Leu Phe Arg Leu Gln Lys Gln Leu Leu Arg His Ala  
   290              295              300  
 Lys His His Thr Asp Gln Arg Asp Tyr Ile Cys Glu Tyr Cys Ala Arg  
   305              310              315              320  
 Ala Phe Lys Ser Ser His Asn Leu Ala Val His Arg Met Ile His Thr  
   325              330              335  
 Gly Glu Lys Pro Leu Gln Cys Glu Ile Cys Gly Phe Thr Cys Arg Gln  
   340              345              350  
 Lys Ala Ser Leu Asn Trp His Met Lys Lys His Asp Ala Asp Ser Phe  
   355              360              365  
 Tyr Gln Phe Ser Cys Asn Ile Cys Gly Lys Lys Phe Glu Lys Lys Asp  
   370              375              380  
 Ser Val Val Ala His Lys Ala Lys Ser His Pro Glu Val Leu Ile Ala  
   385              390              395              400  
 Glu Ala Leu Ala Ala Asn Ala Gly Ala Leu Ile Thr Ser Thr Asp Ile  
   405              410              415  
 Leu Gly Thr Asn Pro Glu Ser  
   420              423

<210> 1424  
<211> 158  
<212>Amino acid  
<213> Homo sapiens

<400> 1424  
 Met Thr Ala Asn Arg Leu Ala Glu Ser Leu Leu Ala Leu Ser Gln Gln  
 1 5 10 15  
 Glu Glu Leu Ala Asp Leu Pro Lys Asp Tyr Leu Leu Ser Glu Ser Glu  
 20 25 30  
 Asp Glu Gly Asp Asn Asp Gly Glu Arg Lys His Gln Lys Leu Leu Glu  
 35 40 45  
 Ala Ile Ser Ser Leu Asp Gly Lys Asn Arg Arg Lys Leu Ala Glu Arg  
 50 55 60  
 Ser Glu Ala Ser Leu Lys Val Ser Glu Phe Asn Val Ser Ser Glu Gly  
 65 70 75 80  
 Ser Gly Glu Lys Leu Val Leu Ala Asp Leu Leu Glu Pro Val Lys Thr  
 85 90 95  
 Ser Ser Ser Leu Ala Thr Val Lys Lys Gln Leu Ser Arg Val Lys Ser  
 100 105 110  
 Lys Lys Thr Val Glu Leu Pro Leu Asn Lys Glu Glu Ile Glu Arg Ile  
 115 120 125  
 His Arg Glu Val Ala Phe Asn Lys Thr Ala Gln Val Leu Ser Lys Trp  
 130 135 140  
 Asp Pro Val Val Leu Lys Asn Arg Gln Ala Glu Gln Leu \*  
 145 150 155 157

<210> 1425  
<211> 286  
<212> Amino acid  
<213> Homo sapiens  
  
<220>  
<221> misc\_feature  
<222> (1)...(286)  
<223> X = any amino acid or stop code

<400> 1425  
 Arg Ile Asp Phe Met Phe His Ser Ser Ala Met Val Asn Ser His Arg  
 1 5 10 15  
 Lys Pro Met Phe Asn Ile His Arg Gly Phe Tyr Cys Leu Thr Ala Ile  
 20 25 30  
 Leu Pro Gln Ile Cys Ile Cys Ser Gln Phe Ser Val Pro Ser Ser Tyr  
 35 40 45  
 His Phe Thr Glu Asp Pro Gly Ala Phe Pro Val Ala Thr Asn Gly Glu  
 50 55 60  
 Arg Phe Pro Trp Gln Glu Arg Leu Pro Ser Val Val Ile Pro Leu  
 65 70 75 80  
 His Tyr Asp Leu Phe Val His Pro Asn Leu Thr Ser Leu Asp Phe Val  
 85 90 95  
 Ala Ser Glu Ile Glu Val Leu Val Ser Asn Ala Thr Gln Leu Ile  
 100 105 110  
 Ile Leu His Ser Lys Asp Leu Glu Ile Thr Asn Ala Thr Leu Gln Ser  
 115 120 125  
 Glu Glu Asp Ser Arg Tyr Met Lys Pro Gly Lys Glu Leu Lys Val Leu  
 130 135 140  
 Ser Tyr Pro Ala His Glu Gln Ile Ala Leu Leu Val Pro Glu Lys Leu  
 145 150 155 160  
 Thr Pro His Leu Lys Tyr Tyr Val Ala Met Asp Phe Gln Ala Lys Leu  
 165 170 175  
 Gly Asp Gly Phe Glu Gly Phe Tyr Lys Ser Thr Tyr Arg Thr Leu Gly

Gly		180		185		190									
Glu	Thr	Arg	Ile	Leu	Ala	Val	Thr	Asp	Phe	Glu	Pro	Thr	Gln	Ala	
			195		200							205			
Arg	Met	Ala	Phe	Pro	Cys	Phe	Asp	Glu	Pro	Leu	Phe	Lys	Ala	Asn	Phe
			210		215							220			
Ser	Ile	Lys	Ile	Arg	Arg	Glu	Ser	Arg	His	Ile	Ala	Leu	Ser	Asn	Met
			225		230						235			240	
Pro	Lys	Val	Lys	Thr	Ile	Glu	Leu	Glu	Gly	Gly	Leu	Leu	Glu	Asp	His
			245		250						250			255	
Phe	Glu	Thr	Thr	Val	Lys	Met	Ser	Thr	Tyr	Leu	Val	Ala	Tyr	Ile	Asp
			260		265						265			270	
Leu	Xaa	Phe	Pro	Leu	Met	Gly	Asn	Asp	Phe	Gly	Arg	Ser			
			275		280						285	286			

<210> 1426  
<211> 224  
<212>Amino acid  
<213> Homo sapiens

	<400> 1426														
Arg	Ser	Lys	Ile	Pro	Arg	Ser	Asp	Pro	Arg	Val	Arg	Thr	Pro	Ala	Pro
1				5				10				15			
Ala	Glu	Ala	Glu	Gln	Gly	Lys	Ser	Gln	Cys	Pro	Ser	Gly	Ser	Thr	Ala
				20				25				30			
Gln	Ser	Trp	Ser	Ala	Met	Asp	Ile	Leu	Val	Pro	Leu	Leu	Gln	Leu	Leu
			35		40						45				
Val	Leu	Leu	Leu	Thr	Leu	Pro	Leu	His	Leu	Met	Ala	Leu	Leu	Gly	Cys
			50		55						60				
Trp	Gln	Pro	Leu	Cys	Lys	Ser	Tyr	Phe	Pro	Tyr	Leu	Met	Ala	Val	Leu
			55		70						75			80	
Thr	Pro	Lys	Ser	Asn	Arg	Lys	Met	Glu	Ser	Lys	Lys	Arg	Glu	Leu	Phe
			85		90						95				
Ser	Gln	Ile	Lys	Gly	Leu	Thr	Gly	Ala	Ser	Gly	Lys	Val	Ala	Leu	Leu
			100		105						110				
Glu	Leu	Gly	Cys	Gly	Thr	Gly	Ala	Asn	Phe	Gln	Phe	Tyr	Pro	Pro	Gly
			115		120						125				
Cys	Arg	Val	Thr	Cys	Leu	Asp	Pro	Asn	Pro	His	Phe	Glu	Lys	Phe	Leu
			130		135						140				
Thr	Lys	Ser	Met	Ala	Glu	Asn	Arg	His	Leu	Gln	Tyr	Glu	Arg	Phe	Val
			145		150						155			160	
Val	Ala	Pro	Gly	Glu	Asp	Met	Arg	Gln	Leu	Ala	Asp	Gly	Ser	Met	Asp
			165		170						170			175	
Val	Val	Val	Cys	Thr	Leu	Val	Leu	Cys	Ser	Val	Gln	Ser	Pro	Arg	Lys
			180		185						190				
Val	Leu	Gln	Glu	Val	Arg	Arg	Val	Leu	Arg	Pro	Gly	Gly	Val	Leu	Phe
			195		200						205				
Phe	Trp	Glu	His	Val	Ala	Glu	Pro	Tyr	Gly	Ser	Trp	Ala	Phe	Met	Trp
			210		215						220			224	

<210> 1427  
<211> 133  
<212>Amino acid  
<213> Homo sapiens

<400> 1427

Arg	Leu	Gln	Asn	Ser	Ser	Leu	Met	Asp	Pro	Lys	Leu	Gly	Arg	Met	Ala
1							5			10				15	
Ala	Ser	Leu	Leu	Ala	Val	Leu	Leu	Leu	Leu	Leu	Glu	Arg	Gly	Met	
							20			25			30		
Phe	Ser	Ser	Pro	Ser	Pro	Pro	Pro	Ala	Leu	Leu	Glu	Lys	Val	Phe	Gln
							35			40			45		
Tyr	Ile	Asp	Leu	His	Gln	Asp	Glu	Phe	Val	Gln	Thr	Leu	Lys	Glu	Trp
							50			55			60		
Val	Ala	Ile	Glu	Ser	Asp	Ser	Val	Gln	Pro	Val	Pro	Arg	Phe	Arg	Gln
							65			70			75		80
Glu	Leu	Phe	Arg	Met	Met	Ala	Val	Ala	Ala	Asp	Thr	Leu	Gln	Arg	Leu
							85			90			95		
Gly	Ala	Arg	Val	Ala	Ser	Val	Asp	Met	Gly	Pro	Gln	Gln	Leu	Pro	Asp
							100			105			110		
Gly	Gln	Ser	Leu	Pro	Ile	Pro	Pro	Val	Ile	Leu	Ala	Glu	Leu	Gly	Ser
							115			120			125		
Asp	Pro	Thr	Lys	Gly											
							130			133					

<210> 1428  
<211> 38  
<212>Amino acid  
<213> Homo sapiens

<400> 1428

Phe	Phe	Phe	Glu	Met	Glu	Ser	Cys	Ser	Val	Thr	Gln	Ala	Gly	Val	
1					5					10			15		
Pro	Trp	His	Asp	Leu	Ser	Ser	Leu	Gln	Pro	Pro	Pro	Pro	Arg	Phe	Lys
							20			25			30		
Arg	Phe	Ser	Cys	Leu	Ser										
							35			38					

<210> 1429  
<211> 145  
<212>Amino acid  
<213> Homo sapiens

<400> 1429

Asp	Pro	Lys	Ala	Gln	Leu	Pro	Glu	Pro	Leu	Arg	Val	Leu	Trp	Thr	Ala
1							5			10			15		
His	Leu	Val	Ala	Met	Ala	Pro	Gly	Ser	Arg	Thr	Ser	Leu	Leu	Ala	
							20			25			30		
Phe	Ala	Leu	Leu	Cys	Leu	Pro	Trp	Leu	Gln	Glu	Ala	Gly	Ala	Val	Gln
							35			40			45		
Thr	Val	Pro	Leu	Ser	Arg	Leu	Phe	Asp	His	Ala	Met	Leu	Gln	Ala	His
							50			55			60		
Arg	Ala	His	Gln	Leu	Ala	Ile	Asp	Thr	Tyr	Gln	Glu	Phe	Glu	Thr	
							65			70			75		80
Tyr	Ile	Pro	Lys	Asp	Gln	Lys	Tyr	Ser	Phe	Leu	His	Asp	Ser	Gln	Thr
							85			90			95		
Ser	Phe	Cys	Phe	Ser	Asp	Ser	Ile	Pro	Thr	Pro	Ser	Asn	Met	Glu	Glu

100	105	110
Thr Gln Gln Lys Ser Asn Leu Glu	Leu Leu Arg Ile Ser	Leu Leu Leu
115	120	125
Ile Glu Ser Trp Leu Glu Pro Val Arg Ile Leu Met Ser Ile Val Pro		
130	135	140
Asn		
145		

<210> 1430  
<211> 453  
<212>Amino acid  
<213> Homo sapiens

<400> 1430		
Phe Val Lys Leu Ile Lys Lys His Gln Ala Ala Met Glu Lys Glu Ala		
1	5	10
Lys Val Met Ser Asn Glu Glu Lys Lys Phe Gln Gln His Ile Gln Ala		15
20	25	30
Gln Gln Lys Lys Glu Leu Asn Ser Phe Leu Glu Ser Gln Lys Arg Glu		
35	40	45
Tyr Lys Leu Arg Lys Glu Gln Leu Lys Glu Glu Leu Asn Glu Asn Gln		
50	55	60
Ser Thr Pro Lys Lys Glu Lys Gln Glu Trp Leu Ser Lys Gln Lys Glu		
65	70	75
Asn Ile Gln His Phe Gln Ala Glu Glu Glu Ala Asn Leu Leu Arg Arg		80
85	90	95
Gln Arg Gln Tyr Leu Glu Leu Glu Cys Arg Arg Phe Lys Arg Arg Met		
100	105	110
Leu Leu Gly Arg His Asn Leu Glu Gln Asp Leu Val Arg Glu Glu Leu		
115	120	125
Asn Lys Arg Gln Thr Gln Lys Asp Leu Glu His Ala Met Leu Leu Arg		
130	135	140
Gln His Glu Ser Met Gln Glu Leu Glu Phe Arg His Leu Asn Thr Ile		145
145	150	155
Gln Lys Met Arg Cys Glu Leu Ile Arg Leu Gln His Gln Thr Glu Leu		160
165	170	175
Thr Asn Gln Leu Glu Tyr Asn Lys Arg Arg Glu Arg Glu Leu Arg Arg		
180	185	190
Lys His Val Met Glu Val Arg Gln Gln Pro Lys Ser Leu Lys Ser Lys		
195	200	205
Glu Leu Gln Ile Lys Lys Gln Phe Gln Asp Thr Cys Lys Ile Gln Thr		
210	215	220
Arg Gln Tyr Lys Ala Leu Arg Asn His Leu Leu Glu Thr Thr Pro Lys		
225	230	235
Ser Glu His Lys Ala Val Leu Lys Arg Leu Lys Glu Glu Gln Thr Arg		240
245	250	255
Lys Leu Ala Ile Leu Ala Glu Gln Tyr Asp His Ser Ile Asn Glu Met		
260	265	270
Leu Ser Thr Gln Ala Leu Arg Leu Asp Glu Ala Gln Glu Ala Glu Cys		
275	280	285
Gln Val Leu Lys Met Gln Leu Gln Glu Leu Glu Leu Leu Asn Ala		
290	295	300
Tyr Gln Ser Lys Ile Lys Met Gln Ala Glu Ala Gln His Asp Arg Glu		
305	310	315
Leu Arg Glu Leu Gln Arg Val Ser Leu Arg Arg Ala Leu Leu Glu		320
325	330	335
Gln Lys Ile Glu Glu Glu Met Leu Ala Leu Gln Asn Glu Arg Thr Glu		
340	345	350
Arg Ile Arg Ser Leu Leu Glu Arg Gln Ala Arg Glu Ile Glu Ala Phe		

355	360	365
Asp Ser Glu Ser Met Arg Leu Gly Phe Ser Asn Met Val Leu Ser Asn		
370	375	380
Leu Ser Pro Glu Ala Phe Ser His Ser Tyr Pro Gly Ala Ser Gly Trp		
385	390	395
Ser His Asn Pro Thr Gly Gly Pro Gly Pro His Trp Gly His Pro Met		400
405	410	415
Gly Gly Pro Pro Gln Ala Trp Gly His Pro Met Gln Gly Gly Pro Gln		
420	425	430
Pro Trp Gly His Pro Ser Gly Pro Met Gln Gly Val Pro Arg Gly Ser		
435	440	445
Ser Met Gly Val Arg		
450	453	

<210> 1431  
<211> 151  
<212>Amino acid  
<213> Homo sapiens

<400> 1431		
Leu Ala His Gly Ser Phe Gly Val Ser Asp Phe Pro Ala Pro Ala Ala		
1	5	10
Ala Pro Ala His Thr Leu Thr Ser Phe Ser Gly Ser Leu Ser Pro Gln		15
20	25	30
Phe Arg Lys Pro Leu Gly Arg Ala Pro Ala Met Pro Leu Val Arg Tyr		
35	40	45
Arg Lys Val Val Ile Leu Gly Tyr Arg Cys Val Gly Lys Thr Ser Leu		
50	55	60
Ala His Gln Phe Val Glu Gly Glu Phe Ser Glu Gly Tyr Asp Pro Thr		
65	70	75
Val Glu Asn Thr Tyr Ser Lys Ile Val Thr Leu Gly Lys Asp Glu Phe		80
85	90	95
His Leu His Leu Val Asp Thr Ala Gly Gln Asp Glu Tyr Ser Ile Leu		
100	105	110
Pro Tyr Ser Phe Ile Ile Gly Val His Gly Tyr Val Leu Val Tyr Ser		
115	120	125
Val Thr Ser Leu His Ser Phe Gln Val Ile Glu Ser Leu Tyr Gln Lys		
130	135	140
Leu His Glu Gly His Gly Lys		
145	150	151

<210> 1432  
<211> 514  
<212>Amino acid  
<213> Homo sapiens

<400> 1432		
Ser Ser Pro Ser Arg Glu Leu Cys Phe Tyr Gly Phe Trp Ile Ala Ser		
1	5	10
Ser Trp Trp Ser Arg Trp Val Gly Ser Leu Gly Pro Gly Ile Leu Pro		15
20	25	30
Ser Pro Pro Ala Arg Gly Arg Thr Phe Ala Ser Val Ser Arg Leu Pro		
35	40	45
Pro Pro Trp Ser Ala Gly Ile Thr Leu Thr Pro Phe Leu Ile Cys Gln		

Ser	Gly	Ser	Val	Cys	Pro	Gly	Leu	Gly	Ala	Gly	Phe	Gly	Val	Arg	Ser
65				55			70		75			60		80	
Phe	His	His	Pro	Val	Ala	Arg	Ser	Ala	Val	Leu	Leu	Leu	Pro	Leu	Ala
				85				90				95			
Pro	Ala	Ala	Ala	Gln	Asp	Ser	Thr	Gln	Ala	Ser	Thr	Pro	Gly	Ser	Pro
				100				105				110			
Leu	Ser	Pro	Thr	Glu	Tyr	Glu	Arg	Phe	Phe	Ala	Leu	Leu	Thr	Pro	Thr
				115			120		125						
Trp	Lys	Ala	Glu	Thr	Thr	Cys	Arg	Leu	Arg	Ala	Thr	His	Gly	Cys	Arg
				130			135		140						
Asn	Pro	Thr	Leu	Val	Gln	Leu	Asp	Gln	Tyr	Glu	Asn	His	Gly	Leu	Val
				145			150		155			160			
Pro	Asp	Gly	Ala	Val	Cys	Ser	Asn	Leu	Pro	Tyr	Ala	Ser	Trp	Phe	Glu
				165				170				175			
Ser	Phe	Cys	Gln	Phe	Thr	His	Tyr	Arg	Cys	Ser	Asn	His	Val	Tyr	Tyr
				180				185				190			
Ala	Lys	Arg	Val	Leu	Cys	Ser	Gln	Pro	Val	Ser	Ile	Leu	Ser	Pro	Asn
				195				200			205				
Thr	Leu	Lys	Glu	Ile	Glu	Ala	Ser	Ala	Glu	Val	Ser	Pro	Thr	Thr	Met
				210			215		220						
Thr	Ser	Pro	Ile	Ser	Pro	His	Phe	Thr	Val	Thr	Glu	Arg	Gln	Thr	Phe
				225			230		235			240			
Gln	Pro	Trp	Pro	Glu	Arg	Leu	Ser	Asn	Asn	Val	Glu	Glu	Leu	Leu	Gln
				245				250			255				
Ser	Ser	Leu	Ser	Leu	Gly	Gly	Gln	Glu	Gln	Ala	Pro	Glu	His	Lys	Gln
				260			265		270						
Glu	Gln	Gly	Val	Glu	His	Arg	Gln	Glu	Pro	Thr	Gln	Glu	His	Lys	Gln
				275			280		285						
Glu	Glu	Gly	Gln	Gly	Glu	Glu	Gln	Glu	Glu	Glu	Gln	Glu	Glu	Glu	Glu
				290			295		300						
Gly	Lys	Gln	Glu	Glu	Gly	Gln	Gly	Thr	Lys	Glu	Gly	Arg	Glu	Ala	Val
				305			310		315			320			
Ser	Gln	Leu	Gln	Thr	Asp	Ser	Glu	Pro	Lys	Phe	His	Ser	Glu	Ser	Leu
				325				330			335				
Ser	Ser	Asn	Pro	Ser	Ser	Phe	Ala	Pro	Arg	Val	Arg	Glu	Val	Glu	Ser
				340				345			350				
Thr	Pro	Met	Ile	Met	Glu	Asn	Ile	Gln	Glu	Leu	Ile	Arg	Ser	Ala	Gln
				355				360			365				
Glu	Ile	Asp	Glu	Met	Asn	Glu	Ile	Tyr	Asp	Glu	Asn	Ser	Tyr	Trp	Arg
				370			375		380						
Asn	Gln	Asn	Pro	Gly	Ser	Leu	Leu	Leu	Pro	His	Thr	Glu	Ala	Leu	
				385			390		395			400			
Leu	Val	Leu	Cys	Tyr	Ser	Ile	Val	Glu	Asn	Thr	Cys	Ile	Ile	Thr	Pro
				405				410			415				
Thr	Ala	Lys	Ala	Trp	Lys	Tyr	Met	Glu	Glu	Glu	Ile	Leu	Gly	Phe	Gly
				420				425			430				
Lys	Ser	Val	Cys	Asp	Ser	Leu	Gly	Arg	Arg	His	Met	Ser	Thr	Cys	Ala
				435				440			445				
Leu	Cys	Asp	Phe	Cys	Ser	Leu	Lys	Leu	Glu	Gln	Cys	His	Ser	Glu	Ala
				450				455			460				
Ser	Leu	Gln	Arg	Gln	Gln	Cys	Asp	Thr	Ser	His	Lys	Thr	Pro	Phe	Val
				465				470			475			480	
Ser	Pro	Leu	Leu	Ala	Ser	Gln	Ser	Leu	Ser	Ile	Gly	Asn	Gln	Val	Gly
				485				490			495				
Ser	Pro	Glu	Ser	Gly	Arg	Phe	Tyr	Gly	Leu	Asp	Leu	Tyr	Gly	Gly	Leu
				500				505			510				
His	Met			514											

<210> 1433  
<211> 241  
<212>Amino acid

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(241)

&lt;223&gt; X = any amino acid or stop code

<400> 1433  
 Val Ser Trp Val Pro Ser Lys Asp Gly Asp Val Glu Gly Ala Arg Arg  
 1 5 10 15  
 Pro Phe Thr Arg Leu Asn Thr Ser Leu Gly Pro Gly Leu Gln Glu Gly  
 20 25 30  
 Arg Arg Arg Thr Trp Leu Val Pro Ile Pro Gly Ala Val Leu Pro Gly  
 35 40 45  
 Arg Thr Gln Glu Gln Pro Arg Ala Ser Pro Leu Tyr Xaa Pro Gly Ala  
 50 55 60  
 Pro Pro Cys Gln Pro Gln Gly Leu Val Ala Gly Pro Trp Ala Gln Xaa  
 65 70 75 80  
 Ala Gly Leu Arg Ser Asp Gly Phe Gly Pro Trp Pro Trp Arg Leu Val  
 85 90 95  
 Gly Thr Ala Gly Pro Arg Glu Lys Lys Val Gln Lys Ser Lys Cys Trp  
 100 105 110  
 His Phe Arg Cys Gly Arg His Pro Ala Arg Arg Ser Gly Trp Ala Gly  
 115 120 125  
 Arg His Ala Ser Leu Leu Ala Thr Gly Arg Pro Cys Ser Ser Ala Pro  
 130 135 140  
 Ser Gln Gln Pro Leu Gly Thr Ala Gly Asp Ser Arg Gln Glu Leu Leu  
 145 150 155 160  
 Arg Pro Pro Leu Val Xaa Val Asn Gly Ala Gln Ser Ser Ala Ala Gly  
 165 170 175  
 Asp Trp Gly Ser Ser Pro Arg Thr Ala Gln Ala Leu Ala Arg Pro His  
 180 185 190  
 Arg Leu Gly His His Pro Ala Ala Val Ala Pro Ala Ala Arg Leu Arg  
 195 200 205  
 Thr Gln Ser Gly His Ser Pro Arg Gly Pro Leu Cys Arg Ser Pro Gly  
 210 215 220  
 Ser Pro Arg Arg Met Gly Thr Trp Arg Gly Pro Ala Gly His Ser His  
 225 230 235 240  
 Asp  
 241

&lt;210&gt; 1434

&lt;211&gt; 127

&lt;212&gt; Amino acid

&lt;213&gt; Homo sapiens

<400> 1434  
 Lys Thr Val Ala Glu Glu Ala Ser Val Gly Asn Pro Glu Gly Ala Phe  
 1 5 10 15  
 Met Lys Met Leu Gln Ala Arg Lys Gln His Met Ser Thr Glu Leu Thr  
 20 25 30  
 Ile Glu Ser Glu Ala Pro Ser Asp Ser Ser Gly Ile Asn Leu Ser Gly  
 35 40 45  
 Phe Gly Ser Glu Gln Leu Asp Thr Asn Asp Glu Ser Asp Val Ser Ser  
 50 55 60

Ala Leu Ser Tyr Ile Leu Pro Tyr Leu Ser Leu Arg Asn Leu Gly Ala  
 65                70                75                80  
 Glu Ser Ile Leu Leu Pro Phe Thr Glu Gln Leu Phe Ser Asn Val Gln  
 85                90                95  
 Asp Gly Asp Arg Leu Leu Ser Ile Leu Lys Asn Asn Arg Lys Ser Pro  
 100              105              110  
 Ser Gln Ser Leu Leu Gly Asn Lys Phe Lys Asn Lys Ile Phe  
 115              120              125              127

<210> 1435  
<211> 182  
<212>Amino acid  
<213> Homo sapiens

<400> 1435  
 Gly Glu Cys Phe Ile Met Ala Ala Val Val Gln Gln Asn Asp Leu Val  
 1                5                10                15  
 Phe Glu Phe Ala Ser Asn Val Met Glu Asp Glu Arg Gln Leu Gly Asp  
 20              25              30  
 Pro Ala Ile Phe Pro Ala Val Ile Val Glu His Val Pro Gly Ala Asp  
 35              40              45  
 Ile Leu Asn Ser Tyr Ala Gly Leu Ala Cys Val Glu Glu Pro Asn Asp  
 50              55              60  
 Met Ile Thr Glu Ser Ser Leu Asp Val Ala Glu Glu Glu Ile Ile Asp  
 65              70              75              80  
 Asp Asp Asp Asp Asp Ile Thr Leu Thr Val Glu Ala Ser Cys His Asp  
 85              90              95  
 Gly Asp Glu Thr Ile Glu Thr Ile Glu Ala Ala Glu Ala Leu Leu Asn  
 100             105             110  
 Met Asp Ser Pro Gly Pro Met Leu Asp Glu Lys Arg Ile Asn Asn Asn  
 115             120             125  
 Ile Phe Ser Ser Pro Glu Asp Asp Met Val Val Ala Pro Val Thr His  
 130             135             140  
 Val Ser Val Thr Leu Asp Gly Ile Pro Glu Val Met Glu Thr Gln Gln  
 145             150             155             160  
 Val Gln Glu Lys Tyr Ala Asp Ser Pro Gly Ala Ser Ser Pro Glu Gln  
 165             170             175  
 Pro Lys Arg Lys Lys Lys  
 180             182

<210> 1436  
<211> 154  
<212>Amino acid  
<213> Homo sapiens

<400> 1436  
 His Glu Ala Ser Gly Val Ser Arg Ala Leu Leu Gln Ser Ala Pro Gly  
 1                5                10                15  
 Thr Pro Ala Thr Val Gly Ile Ser Val Gly Glu Leu Trp Pro Phe Ala  
 20              25              30  
 Arg Cys Cys Ser His Ser Tyr Val Arg Ser Leu Arg Gly Leu Ser Val  
 35              40              45  
 Ser Thr His Leu Leu Cys Phe Thr Ile Tyr Ile Met Asn Pro Ser Met  
 50              55              60

Lys Gln Lys Gln Glu Glu Ile Lys Glu Asn Ile Lys Thr Ser Ser Val  
 65                70                75                80  
 Pro Arg Arg Thr Leu Lys Met Ile Gln Pro Ser Ala Ser Gly Ser Leu  
 85                90                95  
 Val Gly Arg Glu Asn Glu Leu Ser Ala Gly Leu Ser Lys Arg Lys His  
 100              105              110  
 Arg Asn Asp His Leu Thr Ser Thr Thr Ser Ser Pro Gly Val Ile Val  
 115              120              125  
 Pro Glu Ser Ser Glu Asn Lys Asn Leu Gly Gly Val Thr Gln Glu Ser  
 130              135              140  
 Phe Asp Leu Met Ile Lys Gly Met Lys Lys  
 145              150              154

<210> 1437  
<211> 63  
<212>Amino acid  
<213> Homo sapiens

<400> 1437  
 Pro Leu Pro Ala Arg Gly Lys Ser Thr Leu Pro Ala Thr Phe Cys Ser  
 1                5                10                15  
 Pro Ser Ala Pro Glu Leu Ala Ser Met Ser Val Val Pro Pro Asn Arg  
 20                25                30  
 Ser Gln Thr Gly Trp Pro Arg Gly Val Thr Gln Phe Gly Asn Lys Tyr  
 35                40                45  
 Ile Gln Gln Thr Lys Pro Leu Thr Leu Glu Arg Thr Ile Asn Leu  
 50                55                60                63

<210> 1438  
<211> 140  
<212>Amino acid  
<213> Homo sapiens

<400> 1438  
 Ala Glu Gly Glu Asp Val Pro Pro Leu Pro Thr Ser Ser Gly Asp Gly  
 1                5                10                15  
 Trp Glu Lys Asp Leu Glu Glu Ala Leu Glu Ala Gly Gly Cys Asp Leu  
 20                25                30  
 Glu Thr Leu Arg Asn Ile Ile Gln Gly Arg Pro Leu Pro Ala Asp Leu  
 35                40                45  
 Arg Ala Lys Val Trp Lys Ile Ala Leu Asn Val Ala Gly Lys Gly Asp  
 50                55                60  
 Ser Leu Ala Ser Trp Asp Gly Ile Leu Asp Leu Pro Glu Gln Asn Thr  
 65                70                75                80  
 Ile His Lys Asp Cys Leu Gln Phe Ile Asp Gln Leu Ser Val Pro Glu  
 85                90                95  
 Glu Lys Ala Ala Glu Leu Leu Asp Ile Glu Ser Val Ile Thr Phe  
 100              105              110  
 Tyr Cys Lys Ser Arg Asn Ile Lys Tyr Ser Thr Ser Leu Ser Trp Ile  
 115              120              125  
 His Leu Leu Lys Pro Leu Val His Leu Gln Leu Pro  
 130              135              140

<210> 1439  
 <211> 84  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1439  
 Ala Leu Pro Lys Phe Leu Thr His Gly Val Lys Ser Asn Glu Arg Val  
 1 5 10 15  
 Val Val Trp Leu Phe Pro Pro Ser Phe Arg Ala Ala Thr Met Val His  
 20 25 30  
 Met Asn Val Leu Pro Asp Ala Leu Lys Ser Ile Asn Asn Ala Glu Arg  
 35 40 45  
 Arg Gly Lys Pro Gln Val Leu Ile Arg Leu Cys Ser Lys Ile Ile Ile  
 50 55 60  
 Trp Phe Leu Thr Val Met Val Lys Tyr Gly Tyr Ile Gly Lys Phe Glu  
 65 70 75 80  
 Pro Thr Arg Pro  
 84

<210> 1440  
 <211> 255  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1440  
 Ala Met Ala Gln Tyr Gly His Pro Ser Pro Leu Gly Met Ala Ala Arg  
 1 5 10 15  
 Glu Glu Leu Tyr Ser Lys Val Thr Pro Arg Arg Asn Arg Gln Gln Arg  
 20 25 30  
 Pro Gly Thr Ile Lys His Gly Ser Ala Leu Asp Val Leu Ser Met  
 35 40 45  
 Gly Phe Pro Arg Ala Arg Ala Gln Lys Ala Leu Ala Ser Thr Gly Gly  
 50 55 60  
 Arg Ser Val Gln Ala Ala Cys Asp Trp Leu Phe Ser His Val Gly Asp  
 65 70 75 80  
 Pro Phe Leu Asp Asp Pro Leu Pro Arg Glu Tyr Val Leu Tyr Leu Arg  
 85 90 95  
 Pro Thr Gly Pro Leu Ala Gln Lys Leu Ser Asp Phe Trp Gln Gln Ser  
 100 105 110  
 Lys Gln Ile Cys Gly Lys Asn Lys Ala His Asn Ile Phe Pro His Ile  
 115 120 125  
 Thr Leu Cys Gln Phe Phe Met Cys Glu Asp Ser Lys Val Asp Ala Leu  
 130 135 140  
 Gly Glu Ala Leu Gln Thr Thr Val Ser Arg Trp Lys Cys Lys Phe Ser  
 145 150 155 160  
 Ala Pro Leu Pro Leu Glu Leu Tyr Thr Ser Ser Asn Phe Ile Gly Leu  
 165 170 175  
 Phe Val Lys Glu Asp Ser Ala Glu Val Leu Lys Lys Phe Ala Ala Asp  
 180 185 190  
 Phe Ala Ala Glu Ala Ala Ser Lys Thr Glu Val His Val Glu Pro His  
 195 200 205  
 Lys Lys Gln Leu His Val Thr Leu Ala Tyr His Phe Gln Ala Ser His  
 210 215 220  
 Leu Pro Thr Leu Glu Lys Leu Ala Gln Asn Ile Asp Val Lys Leu Gly  
 225 230 235 240

Cys Asp Trp Val Ala Thr Ile Phe Ser Arg Asp Ile Arg Phe Ala  
 245   250   255

<210> 1441  
<211> 134  
<212>Amino acid  
<213> Homo sapiens

<400> 1441  
Gln Thr Arg Pro Ala Ser Pro Arg Thr Ala Arg Glu Ser Val Leu Gly  
 1                         5   10   15  
Val Ser Gln Asn Met Ser Phe Asn Leu Gln Ser Ser Lys Lys Leu Phe  
 20                         25   30  
Ile Phe Leu Gly Lys Ser Leu Phe Ser Leu Leu Glu Ala Met Ile Phe  
 35                         40   45  
Ala Leu Leu Pro Lys Pro Arg Lys Asn Val Ala Gly Glu Ile Val Leu  
 50                         55   60  
Ile Thr Gly Ala Gly Ser Gly Leu Gly Arg Leu Leu Ala Leu Gln Phe  
 65                         70   75                                   80  
Ala Arg Leu Gly Ser Val Leu Val Leu Trp Asp Ile Asn Lys Glu Gly  
 85                         90   95  
Asn Glu Glu Thr Cys Lys Met Ala Arg Glu Ala Gly Ala Thr Arg Val  
 100                         105   110  
His Ala Tyr Thr Cys Asp Cys Ser Gln Lys Glu Gly Val Tyr Arg Val  
 115                         120   125  
Ala Asp Gln Val Lys Lys  
 130                         134

<210> 1442  
<211> 155  
<212>Amino acid  
<213> Homo sapiens

<400> 1442  
Met Val Ala Arg Lys Gly Gln Lys Ser Pro Arg Phe Arg Arg Val Thr  
 1                         5   10                                   15  
Cys Phe Leu Arg Leu Gly Arg Ser Thr Leu Leu Glu Leu Glu Pro Ala  
 20                         25   30  
Gly Arg Pro Cys Ser Gly Arg Thr Arg His Arg Ala Leu His Arg Arg  
 35                         40   45  
Leu Val Ala Cys Val Thr Val Ser Ser Arg Arg His Arg Lys Glu Ala  
 50                         55   60  
Gly Arg Gly Arg Ala Glu Ser Phe Ile Ala Val Gly Met Ala Ala Pro  
 65                         70   75                                   80  
Ser Met Lys Glu Arg Gln Val Cys Trp Gly Ala Arg Asp Glu Tyr Trp  
 85                         90   95  
Lys Cys Leu Asp Glu Asn Leu Glu Asp Ala Ser Gln Cys Lys Lys Leu  
 100                         105   110  
Arg Ser Ser Phe Glu Ser Ser Cys Pro Gln Gln Trp Ile Lys Tyr Phe  
 115                         120   125  
Asp Lys Arg Arg Asp Tyr Leu Lys Glu Lys Phe Glu Ala Gly  
 130                         135   140  
Gln Phe Glu Pro Ser Glu Thr Thr Ala Lys Ser  
 145                         150   155

<210> 1443  
<211> 157  
<212>Amino acid  
<213> Homo sapiens

<400> 1443  
Pro Ala Pro Ala Ala Arg Ser Arg Glu Leu Leu Lys Glu Leu Arg Asn  
1 5 10 15  
Gly Gln Asp Met Asp Thr Val Val Phe Glu Asp Val Val Val Phe  
20 25 30  
Thr Leu Glu Glu Trp Ala Leu Leu Asn Pro Ala Gln Arg Lys Leu Tyr  
35 40 45  
Arg Asp Val Met Leu Glu Thr Phe Lys His Leu Ala Ser Val Asp Asn  
50 55 60  
Glu Ala Gln Leu Lys Ala Ser Gly Ser Ile Ser Gln Gln Asp Thr Ser  
65 70 75 80  
Gly Glu Lys Leu Ser Leu Lys Gln Lys Ile Glu Lys Phe Thr Arg Lys  
85 90 95  
Asn Ile Trp Ala Ser Leu Leu Gly Lys Asn Trp Glu Glu His Ser Val  
100 105 110  
Lys Asp Lys His Asn Thr Lys Glu Arg His Leu Ser Arg Asn Pro Arg  
115 120 125  
Val Glu Arg Pro Cys Lys Ser Ser Lys Gly Asn Lys Arg Gly Arg Thr  
130 135 140  
Phe Arg Lys Thr Arg Asn Cys Asn Arg His Leu Arg Arg  
145 150 155 157

<210> 1444  
<211> 53  
<212>Amino acid  
<213> Homo sapiens

<400> 1444  
Cys Val Cys Gly Phe Phe Val Cys Phe Glu Thr Lys Ser Cys Phe Val  
1 5 10 15  
Ala Gln Ala Gly Val Gln Trp His Asn Leu Ser Ser Leu Gln Ala Leu  
20 25 30  
Pro Pro Gly Phe Lys Gln Phe Ser Cys Leu Ser Leu Leu Ser Ser Trp  
35 40 45  
His Tyr Arg Arg Val  
50 53

<210> 1445  
<211> 106  
<212>Amino acid  
<213> Homo sapiens

<400> 1445

Gly Thr Arg Leu Arg Arg Arg Glu Ala Val Trp Phe Glu Val Val  
 1               5               10               15  
 Asn Met Asp Phe Ser Arg Leu His Met Tyr Ser Pro Pro Gln Cys Val  
 20               25               30  
 Pro Glu Asn Thr Gly Tyr Thr Tyr Ala Leu Ser Ser Ser Tyr Ser Ser  
 35               40               45  
 Asp Ala Leu Asp Phe Glu Thr Glu His Lys Leu Asp Pro Val Phe Asp  
 50               55               60  
 Ser Pro Arg Met Ser Arg Arg Ser Leu Arg Leu Ala Thr Thr Ala Cys  
 65               70               75               80  
 Thr Leu Gly Asp Gly Glu Ala Val Gly Ala Asp Ser Gly Thr Ser Ser  
 85               90               95  
 Ala Val Ser Leu Lys Asn Arg Ala Ala Arg  
 100               105           106

<210> 1446  
<211> 95  
<212>Amino acid  
<213> Homo sapiens

<400> 1446  
 Asp Thr Met Gln Ala Val Val Pro Leu Asn Lys Met Thr Ala Ile Ser  
 1               5               10               15  
 Pro Glu Pro Gln Thr Leu Ala Ser Thr Glu Gln Asn Glu Val Pro Arg  
 20               25               30  
 Val Val Thr Ser Gly Glu Gln Glu Ala Ile Leu Arg Gly Asn Ala Ala  
 35               40               45  
 Asp Ala Glu Ser Phe Arg Gln Arg Phe Arg Trp Phe Cys Tyr Ser Glu  
 50               55               60  
 Val Ala Gly Pro Arg Lys Ala Leu Ser Gln Leu Trp Glu Leu Cys Asn  
 65               70               75               80  
 Gln Trp Leu Arg Pro Asp Ile His Thr Lys Glu Gln Ile Leu Glu  
 85               90               95

<210> 1447  
<211> 127  
<212>Amino acid  
<213> Homo sapiens

<400> 1447  
 Pro Ile Cys Leu Phe Ser Arg Pro Thr Leu Arg Pro Ser Arg Ser Lys  
 1               5               10               15  
 Val Ser Leu Ile Glu Gly Arg Gly Ala Asn Met Ala Ala Arg Trp Arg  
 20               25               30  
 Phe Trp Cys Val Ser Val Thr Met Val Val Ala Leu Ile Val Cys  
 35               40               45  
 Asp Val Pro Ser Ala Ser Ala Gln Arg Lys Lys Glu Met Val Leu Ser  
 50               55               60  
 Glu Lys Val Ser Gln Leu Met Glu Trp Thr Asn Lys Arg Pro Val Ile  
 65               70               75               80  
 Arg Met Asn Gly Asp Lys Phe Arg Arg Leu Val Lys Ala Pro Pro Arg  
 85               90               95  
 Asn Tyr Ser Val Ile Val Met Phe Thr Ala Leu Gln Leu His Arg Gln  
 100               105           110

Cys Val Val Cys Lys Tyr Glu Leu Gln Leu Arg Phe Lys Ile Lys  
 115                   120                   125                   127

<210> 1448  
<211> 143  
<212>Amino acid  
<213> Homo sapiens

<400> 1448  
Gln Met Arg Val Lys Asp Pro Thr Lys Ala Leu Pro Glu Lys Ala Lys  
 1                   5                   10                   15  
Arg Ser Lys Arg Pro Thr Val Pro His Asp Glu Asp Ser Ser Asp Asp  
 20                   25                   30  
Ile Ala Val Gly Leu Thr Cys Gln His Val Ser His Ala Ile Ser Val  
 35                   40                   45  
Asn His Val Lys Arg Ala Ile Ala Glu Asn Leu Trp Ser Val Cys Ser  
 50                   55                   60  
Glu Cys Leu Lys Glu Arg Arg Phe Tyr Asp Gly Gln Leu Val Leu Thr  
 65                   70                   75                   80  
Ser Asp Ile Trp Leu Cys Leu Lys Cys Gly Phe Gln Gly Cys Gly Lys  
 85                   90                   95  
Asn Ser Glu Ser Gln His Ser Leu Lys His Phe Lys Ser Ser Arg Thr  
 100                  105                  110  
Glu Pro His Cys Ile Ile Ile Asn Leu Ser Thr Trp Ile Ile Trp Trp  
 115                  120                  125  
Tyr Glu Trp Asp Glu Lys Ile Phe Thr Pro Leu Asn Lys Lys Gly  
 130                  135                  140                  143

<210> 1449  
<211> 121  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(121)  
<223> X = any amino acid or stop code

<400> 1449  
Ala Lys Glu Arg Gly Glu Glu Arg Gln Gly Glu Gly Gly Trp Leu  
 1                   5                   10                   15  
Ser Gly Ser Arg Trp Pro Leu Val Arg Ser Ala Phe Val Pro Ala Pro  
 20                   25                   30  
Ser Ser Leu Ile Leu Ser Met Cys Leu Ser Pro Gly Ile Pro Glu Ala  
 35                   40                   45  
Ala Pro Asp Ser Pro Leu Thr Ala Ser Ala Pro Thr Pro Xaa Val Met  
 50                   55                   60  
Leu Leu Gly Asp Thr Gly Val Gly Lys Thr Cys Phe Leu Ile Gln Phe  
 65                   70                   75                   80  
Lys Asp Gly Ala Phe Leu Ser Gly Thr Phe Ile Ala Thr Val Gly Ile  
 85                   90                   95  
Asp Phe Arg Val Arg Trp Leu Gln Ala Leu Ala Ser Ser Arg Glu Pro  
 100                  105                  110  
Gly Leu Trp Leu Arg His Gly Gly Val

115

120 121

<210> 1450  
<211> 76  
<212>Amino acid  
<213> Homo sapiens

<400> 1450  
Phe Tyr Pro Arg Ser Ser Ala Asp Leu Pro Phe Gln Thr Thr Arg Cys  
1                       5                       10                       15  
Glu Phe Gln Thr Ser Val Met Glu Leu Ala His Ser Leu Leu Asn  
20                       25                       30  
Glu Glu Ala Leu Ala Gln Ile Thr Glu Ala Lys Arg Pro Val Phe Ile  
35                       40                       45  
Phe Glu Trp Leu Arg Phe Leu Asp Lys Val Leu Val Ala Ala Asn Lys  
50                       55                       60  
Val Trp Tyr Cys Ser Phe Phe Pro Val Ala Leu Thr  
65                       70                       75                   76

<210> 1451  
<211> 95  
<212>Amino acid  
<213> Homo sapiens

<400> 1451  
Met Asn Met Lys Gln Lys Ser Val Tyr Gln Gln Thr Lys Ala Leu Leu  
1                       5                       10                       15  
Cys Lys Asn Phe Leu Lys Lys Trp Arg Met Lys Arg Glu Ser Leu Leu  
20                       25                       30  
Glu Trp Gly Leu Ser Ile Leu Leu Gly Leu Cys Ile Ala Leu Phe Ser  
35                       40                       45  
Ser Ser Met Arg Asn Val Gln Phe Pro Gly Met Ala Pro Gln Asn Leu  
50                       55                       60  
Gly Arg Val Asp Lys Phe Asn Ser Ser Ser Leu Met Val Val Tyr Thr  
65                       70                       75                   80  
Pro Ile Ser Asn Leu Thr Gln Gln Ile Met Asn Lys Thr Ala Leu  
85                       90                       95

<210> 1452  
<211> 174  
<212>Amino acid  
<213> Homo sapiens

<400> 1452  
Ser Pro Gln Gly Asn Gly Cys Pro Asp Val Thr Gly Asp Ser Val Ile  
1                       5                       10                       15  
Arg Val Pro Leu Thr Leu Leu Val His Asn Leu Ala Gly Leu Thr Gly  
20                       25                       30  
Leu Leu His His Cys Leu Ser Gly Pro Leu Pro Ala Pro Ser Pro Pro

35	40	45
Pro Ala Met Ser Ser Ser Arg Lys Asp His Leu Gly Ala Ser Ser Ser		
50	55	60
Glu Pro Leu Pro Val Ile Ile Val Gly Asn Gly Pro Ser Gly Ile Cys		
65	70	75
Leu Ser Tyr Leu Leu Ser Gly Tyr Thr Pro Tyr Thr Lys Pro Asp Ala		
85	90	95
Ile His Pro His Pro Leu Leu Gln Arg Lys Leu Thr Glu Ala Pro Gly		
100	105	110
Val Ser Ile Leu Asp Gln Asp Leu Asp Tyr Leu Ser Glu Gly Leu Glu		
115	120	125
Gly Arg Ser Gln Ser Pro Val Ala Leu Leu Phe Asp Ala Leu Leu Arg		
130	135	140
Pro Asp Thr Asp Phe Gly Gly Asn Met Lys Ser Val Leu Thr Trp Lys		
145	150	155
His Arg Lys Glu His Ala Ile Pro His Val Val Leu Gly Arg		
165	170	174

&lt;210&gt; 1453

&lt;211&gt; 518

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

&lt;400&gt; 1453

Asn Arg Arg Thr Arg Ala Gln Arg Cys Gln Arg Gly Arg Ser Cys Gly		
1	5	10
Ala Arg Glu Glu Glu Val Glu Pro Gly Thr Ala Arg Pro Pro Ala		
20	25	30
Ala Ser Ala Met Asp Ala Ser Leu Glu Lys Ile Ala Asp Pro Thr Leu		
35	40	45
Ala Glu Met Gly Lys Asn Leu Lys Glu Ala Val Lys Met Leu Glu Asp		
50	55	60
Ser Gln Arg Arg Thr Glu Glu Glu Asn Gly Lys Lys Leu Ile Ser Gly		
65	70	75
Asp Ile Pro Gly Pro Leu Gln Gly Ser Gly Gln Asp Met Val Ser Ile		
85	90	95
Leu Gln Leu Val Gln Asn Leu Met His Gly Asp Glu Asp Glu Pro		
100	105	110
Gln Ser Pro Arg Ile Gln Asn Ile Gly Glu Gln Gly His Met Ala Leu		
115	120	125
Leu Gly His Ser Leu Gly Ala Tyr Ile Ser Thr Leu Asp Lys Glu Lys		
130	135	140
Leu Arg Lys Leu Thr Thr Arg Ile Leu Ser Asp Thr Thr Leu Trp Leu		
145	150	155
Cys Arg Ile Phe Arg Tyr Glu Asn Gly Cys Ala Tyr Phe His Glu Glu		
165	170	175
Glu Arg Glu Gly Leu Ala Lys Ile Cys Arg Leu Ala Ile His Ser Arg		
180	185	190
Tyr Glu Asp Phe Val Val Asp Gly Phe Asn Val Leu Tyr Asn Lys Lys		
195	200	205
Pro Val Ile Tyr Leu Ser Ala Ala Ala Arg Pro Gly Leu Gly Gln Tyr		
210	215	220
Leu Cys Asn Gln Leu Gly Leu Pro Phe Pro Cys Leu Cys Arg Val Pro		
225	230	235
Cys Asn Thr Val Phe Gly Ser Gln His Gln Met Asp Val Ala Phe Leu		
245	250	255
Glu Lys Leu Ile Lys Asp Asp Ile Glu Arg Gly Arg Leu Pro Leu Leu		
260	265	270
Leu Val Ala Asn Ala Gly Thr Ala Ala Val Gly His Thr Asp Lys Ile		

275	280	285
Gly Arg Leu Lys Glu Leu Cys Glu Gln Tyr Gly Ile Trp Leu His Val		
290	295	300
Glu Gly Val Asn Leu Ala Thr Ala Leu Gly Tyr Val Ser Ser Ser		
305	310	315
Val Leu Ala Ala Lys Cys Asp Ser Met Thr Met Thr Pro Gly Pro		
325	330	335
Trp Leu Gly Leu Pro Ala Val Pro Ala Val Thr Leu Tyr Lys His Asp		
340	345	350
Asp Pro Ala Leu Thr Leu Val Ala Gly Leu Thr Ser Asn Lys Pro Thr		
355	360	365
Asp Lys Leu Arg Ala Leu Pro Leu Trp Leu Ser Leu Gln Tyr Leu Gly		
370	375	380
Leu Asp Gly Phe Val Glu Arg Ile Lys His Ala Cys Gln Leu Ser Gln		
385	390	395
Arg Leu Gln Glu Ser Leu Lys Lys Val Asn Tyr Ile Lys Ile Leu Val		
405	410	415
Glu Asp Glu Leu Ser Ser Pro Val Val Phe Arg Phe Phe Gln Glu		
420	425	430
Leu Pro Gly Ser Asp Pro Val Phe Lys Ala Val Pro Val Pro Asn Met		
435	440	445
Thr Pro Ser Gly Val Gly Arg Glu Arg His Ser Cys Asp Ala Leu Asn		
450	455	460
Arg Trp Leu Gly Glu Gln Leu Lys Gln Leu Val Pro Ala Ser Gly Leu		
465	470	475
480		
Thr Val Met Asp Leu Glu Ala Glu Gly Thr Cys Leu Arg Phe Ser Pro		
485	490	495
Leu Met Thr Ala Ala Gly Lys Pro Gly Leu Val Asp Ile Pro Cys Phe		
500	505	510
Cys Ser Gly Ala Ala Gly		
515	518	

<210> 1454  
<211> 185  
<212>Amino acid  
<213> Homo sapiens

<400> 1454			
Leu Cys Ile Met Asp Thr Lys Glu Glu Lys Lys Glu Arg Lys Gln Ser			
1	5	10	15
Tyr Phe Ala Arg Leu Lys Lys Lys Gln Ala Lys Gln Asn Ala Glu			
20	25	30	
Thr Ala Ser Ala Val Ala Thr Arg Thr His Thr Gly Lys Glu Asp Asn			
35	40	45	
Asn Thr Val Val Leu Glu Pro Asp Lys Cys Asn Ile Ala Val Glu Glu			
50	55	60	
Glu Tyr Met Thr Asp Glu Lys Lys Arg Lys Ser Asn Gln Leu Lys			
65	70	75	80
Glu Ile Arg Arg Thr Glu Leu Lys Arg Tyr Tyr Ser Ile Asp Asp Asn			
85	90	95	
Gln Asn Lys Thr His Asp Lys Lys Glu Lys Lys Met Val Val Gln Lys			
100	105	110	
Pro His Gly Thr Met Glu Tyr Thr Ala Gly Asn Gln Asp Thr Leu Asn			
115	120	125	
Ser Ile Ala Leu Lys Phe Asn Ile Thr Pro Asn Lys Leu Val Glu Leu			
130	135	140	
Asn Lys Leu Phe Thr His Thr Ile Val Pro Gly Gln Val Leu Phe Val			
145	150	155	160
Pro Asp Ala Asn Ser Pro Ser Ser Thr Leu Arg Leu Ser Ser Ser			

	165		170		175			
Pro	Gly	Ala	Thr	Val	Ser	Pro	Ser	Ser
		180				185		

<210> 1455  
<211> 206  
<212>Amino acid  
<213> Homo sapiens

	1455														
Ser	Ala	Gly	Gly	Asp	Ser	Cys	Arg	Ala	Val	Pro	Met	Leu	Arg	Phe	Pro
								1	5	10	15				
Thr	Cys	Phe	Pro	Ser	Phe	Arg	Val	Val	Gly	Glu	Lys	Gln	Leu	Pro	Gln
								20	25	30					
Glu	Ile	Ile	Phe	Leu	Val	Trp	Ser	Pro	Lys	Arg	Asp	Leu	Ile	Ala	Leu
								35	40	45					
Ala	Asn	Thr	Ala	Gly	Glu	Val	Leu	Leu	His	Arg	Leu	Ala	Ser	Phe	His
								50	55	60					
Arg	Val	Trp	Ser	Phe	Pro	Pro	Asn	Glu	Asn	Thr	Gly	Lys	Glu	Val	Thr
								65	70	75			80		
Cys	Leu	Ala	Trp	Arg	Pro	Asp	Gly	Lys	Leu	Leu	Ala	Phe	Ala	Leu	Ala
								85	90	95					
Asp	Thr	Lys	Ile	Val	Leu	Cys	Asp	Val	Glu	Lys	Pro	Glu	Ser	Leu	
								100	105	110					
His	Ser	Phe	Ser	Val	Glu	Ala	Pro	Val	Ser	Cys	Met	His	Trp	Met	Glu
								115	120	125					
Val	Thr	Val	Glu	Ser	Ser	Val	Leu	Thr	Ser	Phe	Tyr	Asn	Ala	Glu	Asp
								130	135	140					
Glu	Ser	Asn	Leu	Leu	Leu	Pro	Lys	Leu	Pro	Thr	Leu	Pro	Lys	Asn	Tyr
								145	150	155			160		
Ser	Asn	Thr	Ser	Lys	Ile	Phe	Ser	Glu	Glu	Asn	Ser	Asp	Glu	Ile	Ile
								165	170	175					
Lys	Leu	Leu	Gly	Asp	Val	Arg	Ieu	Asn	Ile	Leu	Val	Leu	Gly	Gly	Ser
								180	185	190					
Ser	Gly	Phe	Ile	Glu	Leu	Tyr	Ala	Tyr	Gly	Met	Phe	Lys	Ile		
								195	200	205	206				

<210> 1456  
<211> 100  
<212>Amino acid  
<213> Homo sapiens

	1456															
Pro	Arg	Asp	Pro	Val	Thr	Asp	Arg	Ala	Arg	Ala	Met	Pro	Arg	Arg	Gly	
								1	5	10	15					
Leu	Val	Ala	Gly	Pro	Asp	Leu	Glu	Tyr	Phe	Gln	Arg	His	Tyr	Phe	Thr	
								20	25	30						
Pro	Ala	Glu	Val	Ala	Gln	His	Asn	Arg	Pro	Glu	Asp	Leu	Trp	Val	Ser	
								35	40	45						
Tyr	Leu	Gly	Arg	Val	Tyr	Asp	Leu	Thr	Ser	Leu	Ala	Gln	Glu	Tyr	Lys	
								50	55	60						
Gly	Asn	Leu	Leu	Leu	Lys	Pro	Ile	Val	Glu	Val	Ala	Gly	Gln	Asp	Ile	
								65	70	75			80			
Ser	His	Trp	Phe	Asp	Pro	Lys	Thr	Arg	Asp	Val	Ser	Tyr	Ala	Gly	Thr	

Trp Asp Cys Gly	85	90
	100	

<210> 1457  
<211> 159  
<212>Amino acid  
<213> Homo sapiens

<400> 1457

Arg Ile Pro Gly Arg Arg Phe Arg Ala Ala Phe Val Leu Gly Ser Ala	1                   5                   10                   15	
Asn Val Ala Ser Ser Val Arg Leu Arg Cys Ser Phe Pro Leu Ser Leu	20                   25                   30	
Gly Gly Pro Ser Gly Pro Ala Ala Ala Ser Val Ala Leu Gly Pro Ala	35                   40                   45	
Gly Pro Gly Arg Ser Leu Gly Arg Thr Pro Asp Thr Gly Asp Trp Glu	50                   55                   60	
Met Asp Ser Val Ser Phe Glu Asp Val Ala Val Ala Phe Thr Gln Glu	65                   70                   75                   80	
Glu Trp Ala Leu Leu Asp Pro Ser Gln Lys Asn Leu Tyr Arg Asp Val	85                   90                   95	
Met Gln Glu Ile Phe Arg Asn Leu Ala Ser Val Gly Asn Lys Ser Glu	100                   105                   110	
Asp Gln Asn Ile Gln Asp Asp Phe Lys Asn Pro Gly Arg Asn Leu Ser	115                   120                   125	
Ser His Val Val Glu Arg Leu Phe Glu Ile Lys Glu Gly Ser Gln Tyr	130                   135                   140	
Gly Glu Thr Phe Ser Gln Asp Ser Asn Leu Asn Leu Asn Lys Ile	145                   150                   155                   159	

<210> 1458  
<211> 154  
<212>Amino acid  
<213> Homo sapiens

<400> 1458

Ser Leu Ser Leu Ser Val Ser Pro Phe Leu Arg Leu Ser Leu Gly Arg	1                   5                   10                   15	
Val Gly Gly Met Ala Glu Glu Met Glu Ser Ser Leu Glu Ala Ser Phe	20                   25                   30	
Ser Ser Ser Gly Ala Val Ser Gly Ala Ser Gly Phe Leu Pro Pro Ala	35                   40                   45	
Arg Ser Arg Ile Phe Lys Ile Ile Val Ile Gly Asp Ser Asn Val Gly	50                   55                   60	
Lys Thr Cys Leu Thr Tyr Arg Phe Cys Ala Gly Arg Phe Pro Asp Arg	65                   70                   75                   80	
Thr Glu Ala Thr Ile Gly Val Asp Phe Arg Glu Arg Ala Val Glu Ile	85                   90                   95	
Asp Gly Glu Arg Ile Lys Ile Gln Leu Trp Asp Thr Ala Gly Gln Glu	100                   105                   110	
Arg Phe Arg Lys Ser Met Val Gln His Tyr Tyr Arg Asn Val His Ala	115                   120                   125	
Val Val Phe Val Tyr Asp Met Thr Asn Met Ala Ser Phe His Ser Leu		

130	135	140
Pro Ser Trp Ile Glu Glu Cys Lys Gln His		
145	150	154

<210> 1459  
<211> 136  
<212>Amino acid  
<213> Homo sapiens

<400> 1459				
Arg Arg Pro Ser Pro Gly Ser Ile Val Ile Met Ala Ala Glu Ser Asp				
1	5	10	15	
Val Leu His Phe Gln Phe Glu Gln Gln Gly Asp Val Val Leu Gln Lys				
20		25	30	
Met Asn Leu Leu Arg Gln Gln Asn Leu Phe Cys Asp Val Ser Ile Tyr				
35		40	45	
Ile Asn Asp Thr Glu Phe Gln Gly His Lys Val Ile Leu Ala Ala Cys				
50		55	60	
Ser Thr Phe Met Arg Asp Gln Phe Leu Leu Thr Gln Ser Lys His Val				
65		70	75	80
Arg Ile Thr Ile Leu Gln Ser Ala Glu Val Gly Arg Lys Ile Leu Leu				
85		90	95	
Ser Cys Tyr Thr Gly Ala Leu Glu Val Lys Arg Lys Glu Leu Leu Lys				
100		105	110	
Tyr Leu Thr Ala Ala Ser Tyr Leu Gln Met Val His Ile Ala Glu Lys				
115		120	125	
Arg Thr Glu Ala Phe Val Lys Phe				
130		135	136	

<210> 1460  
<211> 219  
<212>Amino acid  
<213> Homo sapiens

<400> 1460				
Ala Glu Gly Leu Gln Ser Ala Ala Gly Ile Arg Ile Asp Thr Lys Ala				
1	5	10	15	
Gly Pro Pro Glu Met Leu Lys Pro Leu Trp Lys Ala Ala Val Ala Pro				
20		25	30	
Thr Trp Pro Cys Ser Met Pro Pro Arg Arg Pro Trp Asp Arg Gln Ala				
35		40	45	
Gly Thr Leu Gln Val Leu Gly Ala Leu Ala Val Leu Trp Leu Gly Ser				
50		55	60	
Val Ala Leu Ile Cys Leu Leu Trp Gln Val Pro Arg Pro Pro Thr Trp				
65		70	75	80
Gly Gln Val Gln Pro Lys Asp Val Pro Arg Ser Trp Glu His Gly Ser				
85		90	95	
Ser Pro Ala Trp Glu Pro Leu Glu Ala Glu Ala Arg Gln Gln Arg Asp				
100		105	110	
Ser Cys Gln Leu Val Leu Val Glu Ser Ile Pro Gln Asp Leu Pro Ser				
115		120	125	
Ala Ala Gly Ser Pro Ser Ala Gln Pro Leu Gly Gln Ala Trp Leu Gln				
130		135	140	
Leu Leu Asp Thr Ala Gln Glu Ser Val His Val Ala Ser Tyr Tyr Trp				

145	150	155	160
Ser Leu Thr Gly Pro Asp Ile Gly Val Asn Asp Ser Ser Ser Gln Leu			
165	170	175	
Gly Glu Ala Leu Leu Gln Lys Leu Gln Gln Leu Leu Gly Arg Asn Ile			
180	185	190	
Ser Leu Ala Val Ala Thr Ser Ser Pro Thr Leu Ala Arg Thr Ser Thr			
195	200	205	
Asp Leu Gln Val Leu Ala Ala Arg Gly Ala His			
210	215	219	

<210> 1461  
<211> 80  
<212>Amino acid  
<213> Homo sapiens

<400> 1461	1	5	10	15
Arg Lys Lys Lys Met Pro Leu Pro Phe Gly Leu Lys Leu Lys Arg Thr				
20	25	30		
Leu Leu Asn Asn Glu Phe Val Glu Phe Thr Leu Ser Val Glu Ser Thr				
35	40	45		
Gly Gln Glu Ser Leu Glu Ala Val Ala Gln Arg Leu Glu Leu Arg Glu				
50	55	60		
Val Thr Tyr Phe Ser Leu Trp Tyr Tyr Asn Lys Gln Asn Gln Arg Arg				
65	70	75	80	

<210> 1462  
<211> 176  
<212>Amino acid  
<213> Homo sapiens

<400> 1462	1	5	10	15
Leu Gln Pro Leu Ser Ser Trp Glu Ser Ala Ser Glu Val Thr Arg Ser				
20	25	30		
Pro Val Ser Pro Glu Asp Val Lys Gln Ala Thr Ser Asn Phe Glu Asn				
35	40	45		
Leu Gln Lys Gln Leu Ala Arg Lys Met Lys Leu Pro Ile Phe Ile Ala				
50	55	60		
Asp Ala Phe Thr Ala Arg Ala Phe Arg Gly Asn Pro Ala Ala Val Cys				
65	70	75	80	
Glu Met Asn Leu Ser Glu Thr Ala Phe Ile Arg Lys Leu His Pro Thr				
85	90	95		
Asp Asn Phe Ala Gln Ser Ser Cys Phe Gly Leu Arg Trp Phe Thr Pro				
100	105	110		
Ala Ser Glu Val Pro Leu Cys Gly His Ala Thr Leu Ala Ser Ala Ala				
115	120	125		
Val Leu Phe His Lys Ile Lys Asn Met Asn Ser Thr Leu Thr Phe Val				
130	135	140		
Thr Leu Ser Gly Glu Leu Arg Ala Arg Arg Ala Glu Asp Gly Ile Val				

145	150	155	160
Leu Asp Leu Pro Leu Tyr Pro Ala His Pro Gln Asp Phe His Glu			*
165		170	175

<210> 1463  
 <211> 150  
 <212>Amino acid  
 <213> Homo sapiens

1	5	10	15
Ala Ala Asp Thr Met Gln Ser Asp Asp Val Ile Trp Asp Thr Leu Gly			
35	40	45	
Cys Arg Asn Glu Tyr Ser Leu Thr Gly Leu Cys Asn Arg Ser Ser Cys			
50	55	60	
Pro Leu Ala Asn Ser Gln Tyr Ala Thr Ile Lys Glu Glu Lys Gly Gln			
65	70	75	80
Cys Tyr Leu Tyr Met Lys Val Ile Glu Arg Ala Ala Phe Pro Arg Arg			
85		90	95
Leu Trp Glu Arg Val Arg Leu Ser Lys Asn Tyr Glu Lys Ala Leu Glu			
100	105	110	
Gln Ile Asp Glu Asn Leu Ile Tyr Trp Pro Arg Phe Ile Arg His Lys			
115	120	125	
Cys Lys Gln Arg Phe Thr Lys Ile Thr Gln Tyr Leu Ile Arg Ile Arg			
130	135	140	
Ly <sup>s</sup> Leu Thr Leu Lys Arg Gln Arg Lys Leu Val Pro Leu Ser Lys Lys			
145	150		

<210> 1464  
 <211> 86  
 <212>Amino acid  
 <213> Homo sapiens

1	5	10	15
Phe Val Glu Arg Gly Leu Gly Asp Pro Ala Leu Pro Thr Leu Met Phe			
20	25	30	
Glu Glu Pro Glu Trp Ala Glu Ala Ala Pro Val Ala Ala Gly Leu Gly			
35	40	45	
Pro Val Ile Ser Arg Pro Pro Pro Ala Ala Ser Ser Gln Asn Lys Val			
50	55	60	
Ser Asp Ser Arg Glu Gln Trp Glu Leu Phe Gln Ala Ala Lys Arg Thr			
65	70	75	80
Leu Val Asp Pro Ser Ala Val Cys Ile Ala Gly Arg Asp Thr Cys Gly			
85	86		

<210> 1465  
 <211> 286  
 <212>Amino acid

&lt;213&gt; Homo sapiens

<400> 1465  
 Val Val Glu Phe Leu Trp Ser Arg Arg Pro Ser Gly Ser Ser Asp Pro  
 1 5 10 15  
 Arg Pro Arg Arg Pro Ala Ser Lys Cys Gln Met Met Glu Glu Arg Ala  
 20 25 30  
 Asn Leu Met His Met Met Lys Leu Ser Ile Lys Val Leu Leu Gln Ser  
 35 40 45  
 Ala Leu Ser Leu Gly Arg Ser Leu Asp Ala Asp His Ala Pro Leu Gln  
 50 55 60  
 Gln Phe Phe Val Val Met Glu His Cys Leu Lys His Gly Leu Lys Val  
 65 70 75 80  
 Lys Lys Ser Phe Ile Gly Gln Asn Lys Ser Phe Phe Gly Pro Leu Glu  
 85 90 95  
 Leu Val Glu Lys Leu Cys Pro Glu Ala Ser Asp Ile Ala Thr Ser Val  
 100 105 110  
 Arg Asn Leu Pro Glu Leu Lys Thr Ala Val Gly Arg Gly Arg Ala Trp  
 115 120 125  
 Leu Tyr Leu Ala Leu Met Gln Lys Lys Leu Ala Asp Tyr Leu Lys Val  
 130 135 140  
 Leu Ile Asp Asn Lys His Leu Leu Ser Glu Phe Tyr Glu Pro Glu Ala  
 145 150 155 160  
 Leu Met Met Glu Glu Gly Met Val Ile Val Gly Leu Leu Val Gly  
 165 170 175  
 Leu Asn Val Leu Asp Ala Asn Leu Cys Leu Lys Gly Glu Asp Leu Asp  
 180 185 190  
 Ser Gln Val Gly Val Ile Asp Phe Ser Leu Tyr Leu Lys Asp Val Gln  
 195 200 205  
 Asp Leu Asp Gly Gly Lys Glu His Glu Arg Ile Thr Asp Val Leu Asp  
 210 215 220  
 Gln Lys Asn Tyr Val Glu Glu Leu Asn Arg His Leu Ser Cys Thr Val  
 225 230 235 240  
 Gly Asp Leu Gln Thr Lys Ile Asp Gly Leu Glu Lys Thr Asn Ser Lys  
 245 250 255  
 Leu Gln Glu Arg Val Ser Ala Ala Thr Asp Arg Ile Cys Ser Leu Gln  
 260 265 270  
 Glu Glu Gln Gln Leu Arg Glu Gln Asn Glu Leu Ile Arg  
 275 280 285 286

<210> 1466  
<211> 127  
<212>Amino acid  
<213> Homo sapiens

<400> 1466  
 Gly Cys Tyr Ala Pro Ser Pro His Leu Gly Gly Ser Leu Thr Pro Arg  
 1 5 10 15  
 Phe Phe Pro Asn Gly Val Phe His Arg Arg Leu Pro Arg Pro Arg Pro  
 20 25 30  
 Pro Gln Pro Pro Ser Val Ser Ser Ala Pro Thr Leu Arg Pro Leu Cys  
 35 40 45  
 Ala His Phe Ser Leu Gly Lys Leu Arg Leu Arg Val Arg Lys Ser Ala  
 50 55 60  
 Glu Val Ala Pro Pro Arg Thr Glu Lys Gly Trp Gly Ser Ala Glu Pro

65	70	75	80
Arg His Ser Arg Ala Pro Leu Gly L <sup>e</sup> u Gln Gly Leu Arg Met Ala Ala			
85	90	95	
Ser Ala Gln Val Ser Val Thr Phe Glu Asp Val Ala Val Thr Phe Thr			
100	105	110	
Gln Glu Glu Trp Gly Gln Leu Asp Ala Ala Gln Arg Thr Leu Tyr			
115	120	125	127

<210> 1467  
<211> 146  
<212>Amino acid  
<213> Homo sapiens

<400> 1467			
Phe Arg Gly Ser Ieu Ser Ser Pro Ser Ser Leu Arg Gly Arg Arg Leu			
1	5	10	15
Val Thr Gly Gln Thr Ser Pro Arg Gly Thr Trp Cys Leu Tyr Pro Gly			
20	25	30	
Phe Cys Arg Ser Val Ala Cys Ala Met Pro Cys Cys Ser His Arg Ser			
35	40	45	
Cys Arg Glu Asp Pro Gly Thr Ser Glu Ser Arg Glu Met Asp Pro Val			
50	55	60	
Val Phe Glu Asp Val Ala Val Asn Phe Thr Gln Glu Glu Trp Thr Leu			
65	70	75	80
Leu Asp Ile Ser Gln Lys Asn Leu Phe Arg Glu Val Met Leu Glu Thr			
85	90	95	
Phe Arg Asn Leu Thr Ser Ile Gly Lys Lys Trp Ser Asp Gln Asn Ile			
100	105	110	
Glu Tyr Glu Tyr Gln Asn Pro Arg Arg Ser Phe Arg Ser Leu Ile Glu			
115	120	125	
Glu Lys Val Asn Glu Ile Lys Glu Asp Ser His Cys Gly Glu Thr Phe			
130	135	140	
Thr Gln			
145 146			

<210> 1468  
<211> 44  
<212>Amino acid  
<213> Homo sapiens

<400> 1468			
Leu Asn Phe Ala Asn Ser Ala Ala Phe Ala Val Thr Met Pro Gln Asn			
1	5	10	15
Glu Tyr Ile Glu Leu His Arg Lys Arg Tyr Gly Phe Arg Leu Asp Tyr			
20	25	30	
His Glu Lys Lys Arg Lys Lys Gln Ser Arg Glu Ala			
35	40	44	

<210> 1469  
<211> 198  
<212>Amino acid  
<213> Homo sapiens

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<400> 1469
Ser Gly Asp Leu Ser Pro Ala Glu Leu Met Met Leu Thr Ile Gly Asp
      1           5           10          15
Val Ile Lys Gln Leu Ile Glu Ala His Glu Gln Gly Lys Asp Ile Asp
      20          25          30
Leu Asn Lys Val Lys Thr Lys Thr Ala Ala Lys Tyr Gly Leu Ser Ala
      35          40          45
Gln Pro Arg Leu Val Asp Ile Ile Ala Ala Val Pro Pro Gln Tyr Arg
      50          55          60
Lys Val Leu Met Pro Lys Leu Lys Ala Lys Pro Ile Arg Thr Ala Ser
      65          70          75          80
Gly Ile Ala Val Val Ala Val Met Cys Lys Pro His Arg Cys Pro His
      85          90          95
Ile Ser Phe Thr Gly Asn Ile Cys Val Tyr Cys Pro Gly Gly Pro Asp
      100         105         110
Ser Asp Phe Glu Tyr Ser Thr Gln Ser Tyr Thr Gly Tyr Glu Pro Thr
      115         120         125
Ser Met Arg Ala Ile Arg Ala Arg Tyr Asp Pro Phe Leu Gln Thr Arg
      130         135         140
His Arg Ile Glu Gln Leu Lys Gln Leu Gly His Ser Val Asp Lys Val
      145         150         155         160
Glu Phe Ile Glu Met Gly Gly Thr Phe Met Ala Leu Pro Glu Glu Tyr
      165         170         175
Arg Asp Tyr Phe Ile Arg Asn Leu His Asp Ala Leu Ser Gly His Thr
      180         185         190
Ser Asn Asn Ile Tyr Glu
      195         198

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<210> 1470  
<211> 178  
<212>Amino acid  
<213> Homo sapiens
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<400> 1470
Trp Glu Ser Asp Val Gly Glu Gly Leu Arg Pro Pro Pro Pro Pro Pro Pro
      5          10          15
Pro Pro Gly Arg Arg Arg Thr Gln Glu Pro Arg Ala Arg Asp Ala Ala
      20          25          30
Thr Val Ile Phe Ala Cys Pro Ala Ala Leu Leu Glu Thr Leu Ile Ala
      35          40          45
Tyr Gly Ser Ser Ser Pro Ser Phe Cys Lys His Arg Ala Ala Arg Pro
      50          55          60
Leu Ile Phe Leu Leu His Arg Leu Thr Ala Glu Ala Thr Ala Arg Cys
      65          70          75          80
Pro Ile Cys Ala Leu Glu Ala Arg Asn Pro Gly Arg Trp Gly Ile Cys
      85          90          95
Ala Ser Trp Pro Gly Met Lys Thr Pro Phe Gly Lys Ala Ala Ala Gly
      100         105         110
Gln Arg Ser Arg Thr Gly Ala Gly His Gly Ser Val Ser Val Thr Met
      115         120         125
Ile Lys Arg Lys Ala Ala His Lys Lys His Arg Ser Arg Pro Thr Ser
      130         135         140
Gln Pro Arg Gly Asn Ile Val Gly Cys Ile Ile Gln His Gly Trp Lys
      145         150         155         160
Asp Gly Asp Glu Pro Leu Thr Gln Trp Lys Gly Thr Val Leu Asp Gln

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	165		170		175
Leu	Leu				
	178				

<210> 1471  
 <211> 253  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1471 Arg Asp Leu Gly Val Ala Leu Glu Ala Phe Gln Trp Ala Arg Ala Gly 1               5               10               15 Asp Cys Gly Ser Gly Ala Gly Arg Ala Gly Gly Glu Gly Val Asp Ala 20               25               30 Gly Arg Arg Val Pro Glu Arg Gln His Arg Gly Arg Gly Gly Gly Gly 35               40               45 Glu Pro Gly Arg Arg Gln Arg Gly Gly Arg Arg Gln Arg Ser Ser Ser 50               55               60 Arg Arg Ser Gly Gly Asp Gly Gly Asp Glu Val Glu Gly Ser Gly Val 65               70               75               80 Gly Ala Gly Glu Gly Glu Thr Val Gln His Phe Pro Leu Ala Arg Pro 85               90               95 Lys Ser Leu Met Gln Lys Leu Gln Cys Ser Phe Gln Thr Ser Trp Leu 100              105              110 Lys Asp Phe Pro Trp Leu Arg Tyr Ser Lys Asp Thr Gly Leu Met Ser 115              120              125 Cys Gly Trp Cys Gln Lys Thr Pro Ala Asp Gly Gly Ser Val Asp Leu 130              135              140 Pro Pro Val Gly His Asp Glu Leu Ser Arg Gly Thr Arg Asn Tyr Lys 145              150              155              160 Lys Thr Leu Leu Arg His His Val Ser Thr Glu His Lys Leu His 165              170              175 Glu Ala Asn Ala Gln Glu Ser Glu Ile Pro Ser Glu Glu Gly Tyr Cys 180              185              190 Asp Phe Asn Ser Arg Pro Asn Glu Asn Ser Tyr Cys Tyr Gln Leu Leu 195              200              205 Arg Gln Leu Asn Glu Gln Arg Lys Lys Gly Ile Leu Cys Asp Val Ser 210              215              220 Ile Val Val Ser Gly Ile Phe Lys Ala His Lys Asn Ile Leu Val 225              230              235              240 Ala Gly Ser Arg Phe Phe Lys Thr Leu Tyr Cys Phe Ser 245              250              253
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<210> 1472  
 <211> 147  
 <212>Amino acid  
 <213> Homo sapiens

<400> 1472 Ser Leu Arg Ala Ala Ala Ala Met Ala Asp Val Thr Ala Arg Ser Leu 1               5               10               15 Gln Tyr Glu Tyr Lys Ala Asn Ser Asn Leu Val Leu Gln Ala Asp Arg 20               25               30 Ser Leu Ile Asp Arg Thr Arg Arg Asp Glu Pro Thr Gly Glu Val Leu
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Ser	Leu	Val	Gly	Lys	Leu	Glu	Gly	Thr	Arg	Met	Gly	Asp	Lys	Ala	Gln
35					40						45				
	50					55					60				
Arg	Thr	Lys	Pro	Gln	Met	Gln	Glu	Glu	Arg	Arg	Ala	Lys	Arg	Arg	Lys
65					70						75				80
Arg	Asp	Glu	Asp	Arg	His	Asp	Ile	Asn	Lys	Met	Lys	Gly	Tyr	Thr	Leu
					85					90				95	
Leu	Ser	Glu	Gly	Ile	Asp	Glu	Met	Val	Gly	Ile	Ile	Tyr	Lys	Pro	Lys
					100					105				110	
Thr	Lys	Glu	Thr	Arg	Glu	Thr	Tyr	Glu	Val	Leu	Leu	Ser	Phe	Ile	Gln
	115					120						125			
Ala	Ala	Leu	Gly	Asp	Gln	Pro	Arg	Asp	Ile	Leu	Cys	Gly	Ala	Ala	Asp
	130					135					140				
Glu	Val	Leu													
145		147													

<210> 1473  
<211> 139  
<212>Amino acid  
<213> Homo sapiens

Cys	Asn	Ser	Ala	Glu	Ser	Arg	Met	Asp	Val	Leu	Phe	Val	Ala	Ile	Phe
1				5					10				15		
Ala	Val	Pro	Leu	Ile	Leu	Gly	Gln	Tyr	Glu	Asp	Glu	Glu	Arg	Leu	
				20					25				30		
Gly	Glu	Asp	Glu	Tyr	Tyr	Gln	Val	Val	Tyr	Tyr	Tyr	Tyr	Thr	Val	Thr
	35					40							45		
Ser	Tyr	Asp	Asp	Phe	Ser	Ala	Asp	Phe	Thr	Ile	Asp	Tyr	Ser	Ile	Phe
	50					55					60				
Glu	Ser	Glu	Asp	Arg	Leu	Asn	Arg	Leu	Asp	Lys	Asp	Ile	Thr	Glu	Ala
	65					70					75			80	
Ile	Glu	Thr	Thr	Ile	Ser	Leu	Glu	Thr	Ala	Arg	Ala	Asp	His	Pro	Lys
				85			90					95			
Pro	Val	Thr	Val	Lys	Pro	Val	Thr	Glu	Pro	Gln	Ser	Pro	Asp	Leu	
	100					105						110			
Asn	Asp	Ala	Val	Ser	Ser	Leu	Arg	Ser	Pro	Ile	Pro	Leu	Leu	Leu	Ser
	115					120					125				
Cys	Ala	Phe	Val	Gln	Val	Gly	Met	Tyr	Phe	Met					
	130					135					139				

<210> 1474  
<211> 185  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> {1}...{185}  
<223> X = any amino acid or stop code

Phe	Val	Arg	Gly	Pro	Gly	Glu	Glu	Gln	Ala	Pro	Ala	Phe	Arg	Lys	Pro
1						5					10			15	

Ala Pro Gly Ala Met Gly Ala Gln Val Arg Leu Pro Pro Gly Glu Pro  
           20                 25                 30  
 Cys Arg Glu Gly Tyr Val Leu Ser Leu Val Cys Pro Asn Ser Ser Gln  
           35                 40                 45  
 Ala Trp Cys Glu Ile Thr Asn Val Ser Gln Leu Leu Ala Ser Pro Val  
           50                 55                 60  
 Leu Tyr Thr Asp Leu Asn Tyr Ser Ile Asn Asn Leu Ser Ile Ser Ala  
           65                 70                 75                 80  
 Asn Val Glu Asn Lys Tyr Ser Leu Tyr Val Gly Leu Val Leu Ala Val  
           85                 90                 95  
 Ser Ser Ser Ile Phe Ile Gly Ser Ser Phe Ile Leu Lys Lys Lys Gly  
           100                105                110  
 Leu Leu Gln Leu Ala Ser Lys Gly Phe Thr Arg Ala Gly Gln Gly Gly  
           115                120                125  
 His Ser Tyr Leu Lys Glu Trp Leu Trp Trp Val Gly Leu Ieu Ser Ile  
           130                135                140  
 Leu Ser Trp Asn Ala Arg Glu Lys Val Asp Leu Xaa Asn Ile Thr Phe  
           145                150                155                160  
 Xaa Pro Gln Thr Ser Cys Ile Phe Phe Thr Ile Thr Ile Glu Lys Ser  
           165                170                175  
 Thr Phe Leu Ser Tyr Phe Pro Thr Ser  
           180                185

&lt;210&gt; 1475

&lt;211&gt; 91

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

          <400> 1475  
 Ala Arg Gly Ser Cys Pro Thr Arg Pro Arg Pro Ala Asn Gly Arg Met  
   1                 5                 10                 15  
 Ala Glu Thr Lys Asp Ala Ala Gln Met Leu Val Thr Phe Lys Asp Val  
   20                25                30  
 Ala Val Thr Phe Thr Arg Glu Glu Trp Arg Gln Leu Asp Leu Ala Gln  
   35                40                45  
 Arg Thr Leu Tyr Arg Glu Val Met Leu Glu Thr Cys Gly Leu Leu Val  
   50                55                60  
 Ser Leu Gly His Arg Val Pro Lys Pro Glu Leu Val His Leu Leu Lys  
   65                70                75                80  
 His Gly Gln Glu Leu Trp Ile Val Lys Arg Gly  
   85                 90                91

&lt;210&gt; 1476

&lt;211&gt; 159

&lt;212&gt;Amino acid

&lt;213&gt; Homo sapiens

          <400> 1476  
 Tyr Thr Met Leu Arg Gly Thr Met Thr Ala Trp Arg Gly Met Arg Pro  
   1                 5                 10                 15  
 Glu Val Thr Leu Ala Cys Leu Leu Leu Ala Thr Ala Gly Cys Phe Ala  
   20                25                30  
 Asp Leu Asn Glu Val Pro Gln Val Thr Val Gln Pro Ala Ser Thr Val  
   35                 40                45

Gln	Lys	Pro	Gly	Gly	Thr	Val	Ile	Leu	Gly	Cys	Val	Val	Glu	Pro	Pro
50						55					60				
Arg	Met	Asn	Val	Thr	Trp	Arg	Leu	Asn	Gly	Lys	Glu	Leu	Asn	Gly	Ser
65						70				75					80
Asp	Asp	Ala	Leu	Gly	Val	Leu	Ile	Thr	His	Gly	Thr	Leu	Val	Ile	Thr
						85			90					95	
Ala	Leu	Asn	Asn	His	Thr	Val	Gly	Arg	Tyr	Gln	Cys	Val	Ala	Arg	Met
						100			105					110	
Pro	Ala	Gly	Ala	Val	Ala	Ser	Val	Pro	Ala	Thr	Val	Thr	Leu	Ala	Ser
						115			120				125		
Glu	Ser	Ala	Pro	Leu	Pro	Pro	Cys	His	Gly	Ala	Val	Pro	Pro	His	Leu
						130			135			140			
Ser	His	Pro	Glu	Ala	Pro	Thr	Ile	His	Ala	Ala	Ser	Cys	Tyr	Ser	
						145			150			155			159

<210> 1477  
<211> 139  
<212>Amino acid  
<213> Homo sapiens

<400> 1477															
Trp	Gly	Arg	Arg	Arg	Gln	Leu	Val	Ser	Glu	Ala	Ala	Arg	Ala	Gln	Gly
1						5			10					15	
Asp	Pro	Val	Cys	Ser	Thr	Met	Ser	Glu	Glu	Ala	Ala	Gln	Ile	Pro	
						20			25				30		
Arg	Ser	Ser	Val	Trp	Glu	Gln	Asp	Gln	Gln	Asn	Val	Val	Gln	Arg	Val
						35			40				45		
Val	Ala	Leu	Pro	Leu	Val	Arg	Ala	Thr	Cys	Thr	Ala	Val	Cys	Asp	Val
						50			55			60			
Tyr	Ser	Ala	Ala	Lys	Asp	Arg	His	Pro	Leu	Leu	Gly	Ser	Ala	Cys	Arg
						65			70			75			80
Leu	Ala	Glu	Asn	Cys	Val	Cys	Gly	Leu	Thr	Thr	Arg	Ala	Leu	Asp	His
						85			90			95			
Ala	Gln	Pro	Leu	Leu	Glu	His	Leu	Gln	Pro	Gln	Leu	Ala	Thr	Met	Asn
						100			105			110			
Ser	Leu	Ala	Cys	Arg	Gly	Leu	Asp	Lys	Leu	Glu	Glu	Lys	Leu	Pro	Phe
						115			120			125			
Leu	Gln	Gln	Pro	Ser	Glu	Thr	Val	Val	Thr	Ser					
						130			135			139			

<210> 1478  
<211> 331  
<212>Amino acid  
<213> Homo sapiens

<220>  
<221> misc\_feature  
<222> (1)...(331)  
<223> X = any amino acid or stop code

<400> 1478															
Ala	Lys	Ala	Phe	Thr	Met	Ala	Glu	Ser	Pro	Gly	Cys	Cys	Ser	Val	Trp
1						5			10					15	
Ala	Arg	Cys	Leu	His	Cys	Ieu	Tyr	Ser	Cys	His	Trp	Arg	Lys	Cys	Pro

20	25	30	
Arg Glu Arg Met Gln Thr Ser Lys Cys Asp Cys Ile Trp Phe Gly Leu			
35	40	45	
Leu Phe Leu Thr Phe Leu Leu Ser Leu Ser Trp Leu Tyr Ile Gly Leu			
50	55	60	
Val Leu Leu Asn Asp Leu His Asn Phe Asn Glu Phe Leu Phe Arg Arg			
65	70	75	80
Trp Gly His Trp Met Asp Trp Ser Leu Ala Phe Leu Leu Val Ile Ser			
85	90	95	
Leu Leu Gly Thr Tyr Ala Ser Leu Leu Leu Val Leu Ala Leu Leu Leu			
100	105	110	
Arg Leu Cys Arg Gln Pro Leu His Leu His Ser Leu His Lys Val Leu			
115	120	125	
Leu Leu Leu Ile Met Leu Leu Val Ala Ala Gly Leu Val Gly Leu Asp			
130	135	140	
Ile Gln Trp Gln Gln Glu Arg His Ser Leu Arg Val Ser Leu Gln Asp			
145	150	155	160
Cys Arg Xaa Leu Xaa Thr Pro Ala Val Arg Pro Xaa Glu Glu Ser Gly			
165	170	175	
Glu Gly His Trp Arg Arg Ala His Leu Thr Ser Ser Cys Pro Gln Ala			
180	185	190	
Thr Ala Pro Phe Leu His Ile Gly Ala Ala Gly Ile Ala Leu Leu			
195	200	205	
Ala Trp Pro Val Ala Asp Thr Phe Tyr Arg Ile His Arg Arg Glu Pro			
210	215	220	
Lys Ile Leu Leu Leu Leu Phe Phe Gly Val, Val Leu Val Ile Tyr			
225	230	235	240
Leu Ala Pro Leu Cys Ile Ser Ser Pro Cys Ile Met Glu Pro Arg Asp			
245	250	255	
Leu Pro Pro Lys Pro Gly Leu Val Gly His Arg Gly Ala Pro Met Leu			
260	265	270	
Ala Pro Glu Asn Thr Leu Met Ser Leu Arg Lys Thr Ala Glu Cys Gly			
275	280	285	
Ala Thr Val Phe Glu Thr Asp Val Met Val Ser Ser Asp Gly Val Pro			
290	295	300	
Phe Leu Met His Asp Glu His Leu Ser Arg Thr Thr Asn Val Ala Ser			
305	310	315	320
Val Phe Pro Thr Arg Ile Thr Ala His Ser Ser			
325	330	331	